

NASA CR-

140271

SHUTTLE ACTIVE THERMAL CONTROL SYSTEM

DEVELOPMENT TESTING

VOLUME IV

BOOK 2

MODULAR RADIATOR SYSTEM TEST DATA

23 OCTOBER 1973

(NASA-CR-140271) SHUTTLE ACTIVE THERMAL  
CONTROL SYSTEM DEVELOPMENT TESTING.

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VOLUME 4, BOOK 2: MODULAR RADIATOR  
SYSTEM TEST DATA (LTV Aerospace Corp.)

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SHUTTLE ACTIVE THERMAL CONTROL SYSTEM  
DEVELOPMENT TESTING

VOLUME IV  
BOOK 2  
MODULAR RADIATOR SYSTEM TEST DATA

Report No. T169-28

23 October 1973

Submitted by

VOUGHT SYSTEMS DIVISION  
LTV Aerospace Corporation  
Dallas, Texas

To

National Aeronautics and Space Administration  
Lyndon B. Johnson Space Center  
Houston, Texas

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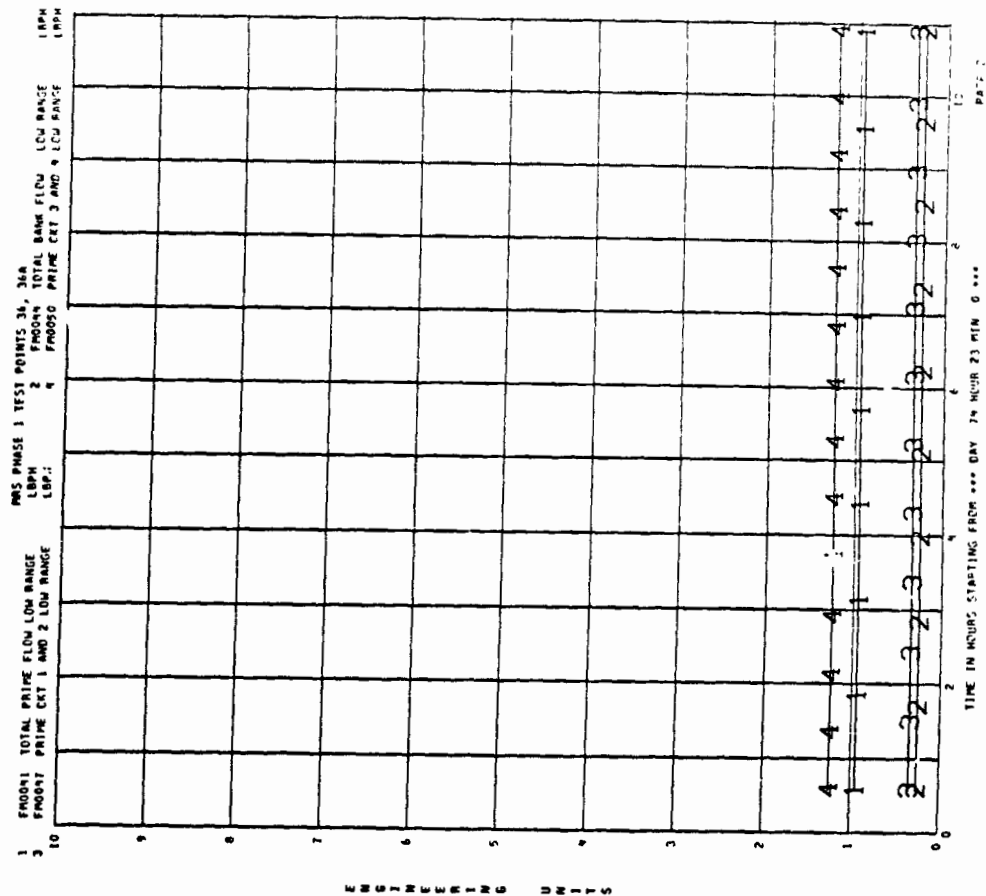
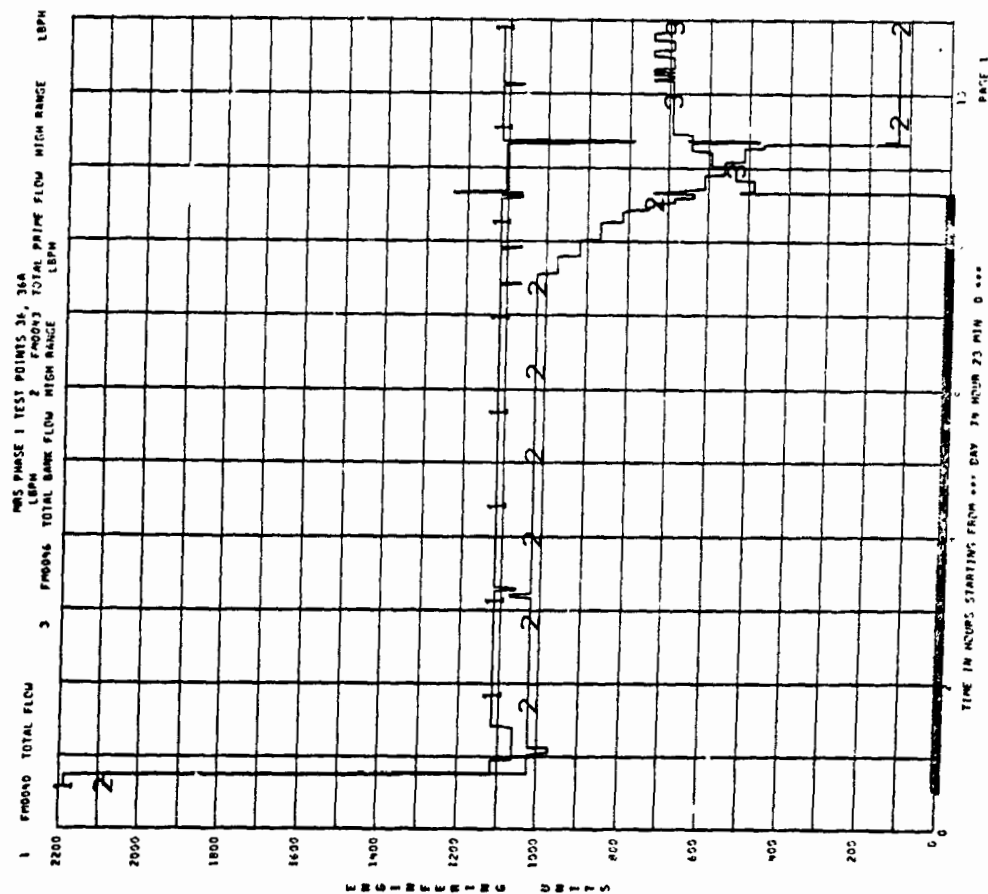
R. J. French  
R. J. French, Supervisor  
Environmental Control/  
Life Support Group

TEST GROUP H

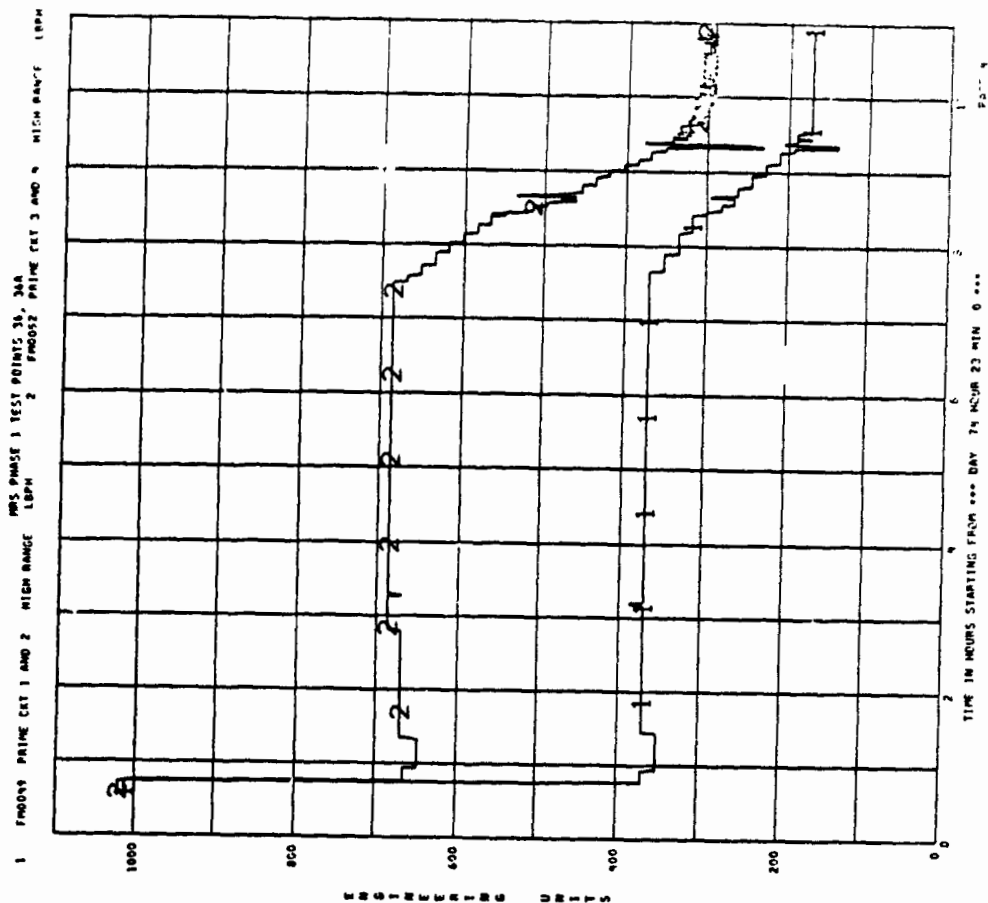
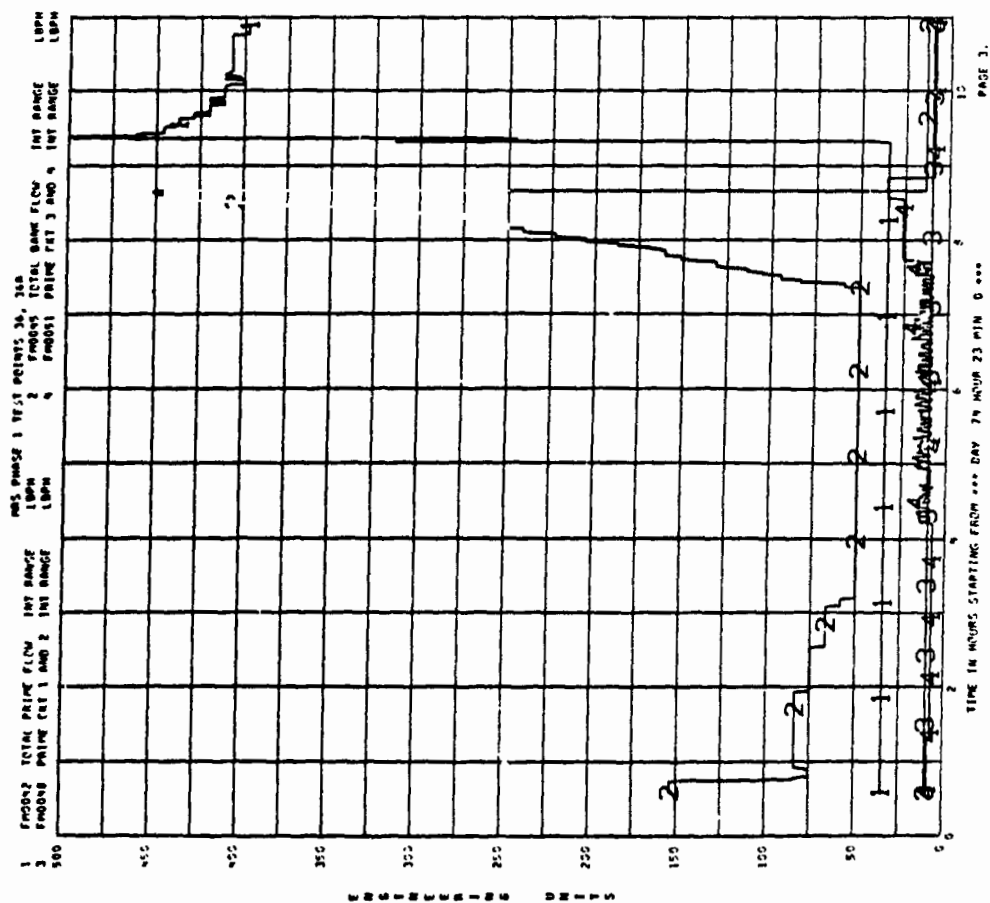
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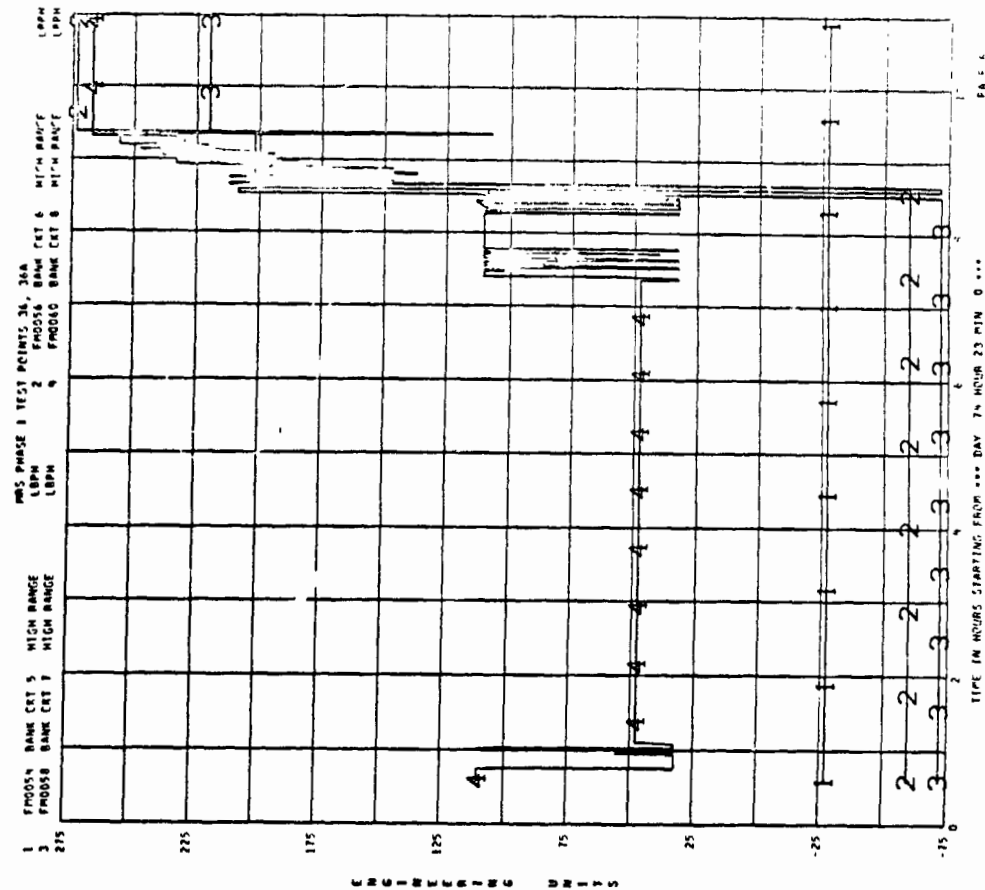
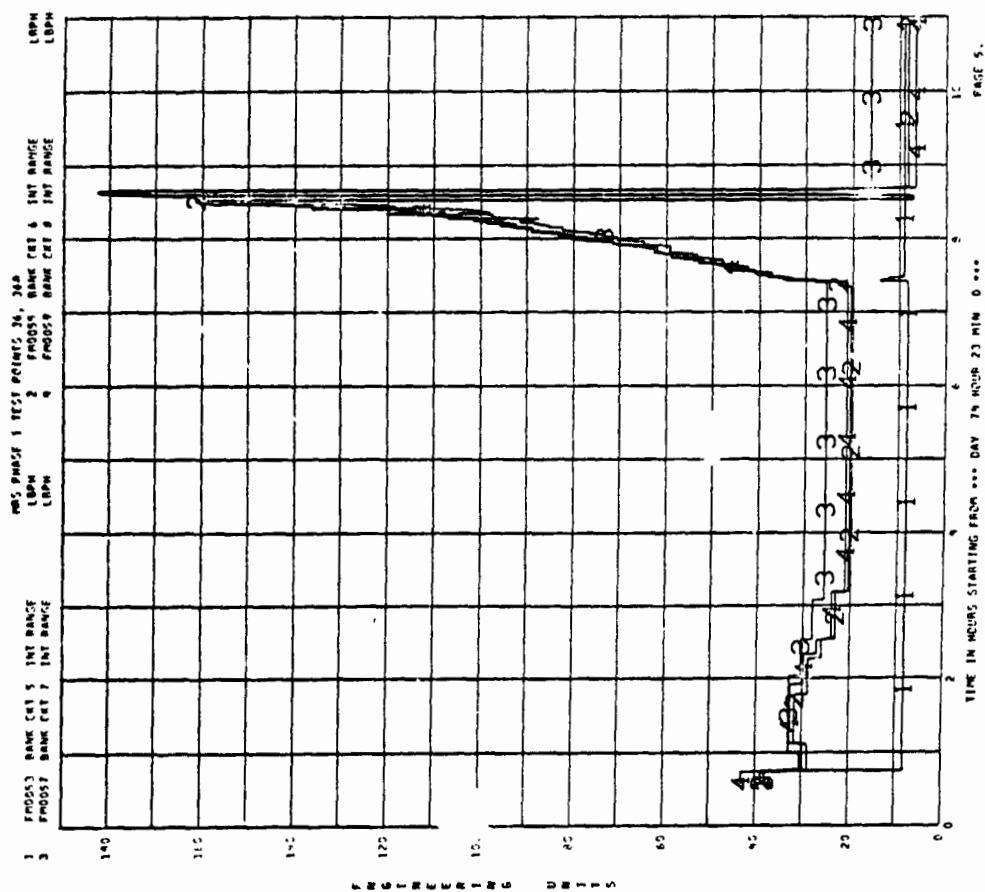
INCLUDES TEST POINTS

36  
36A

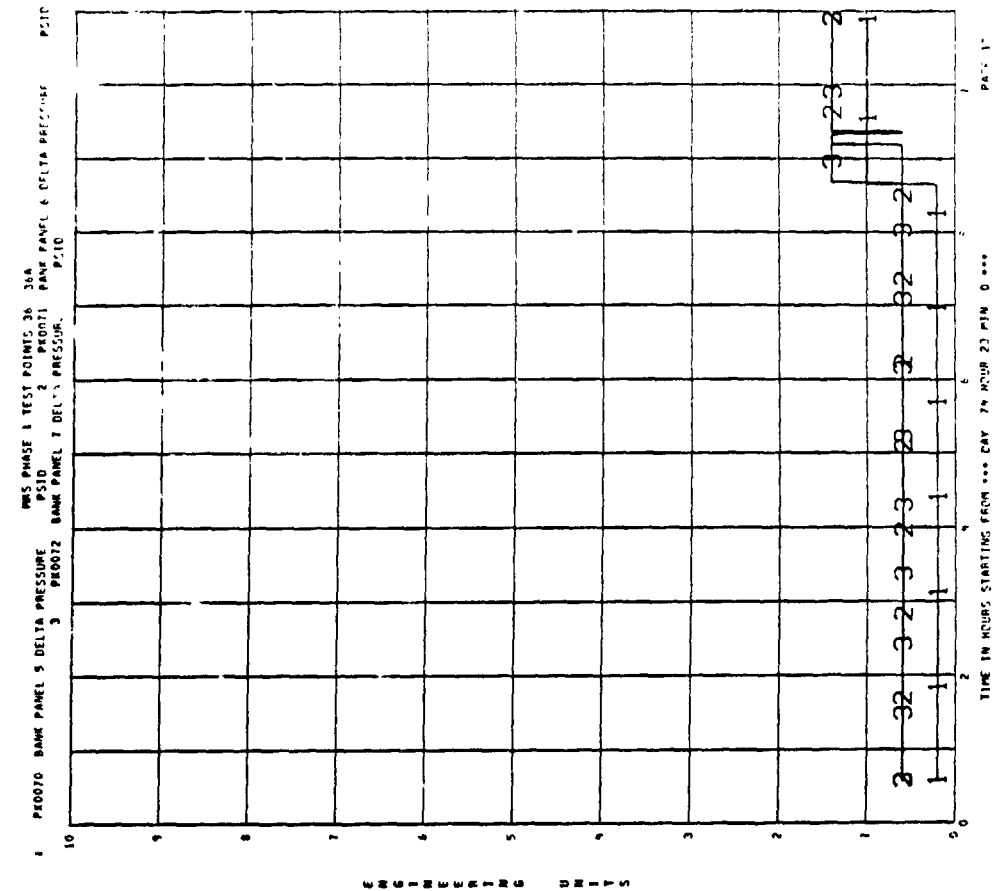
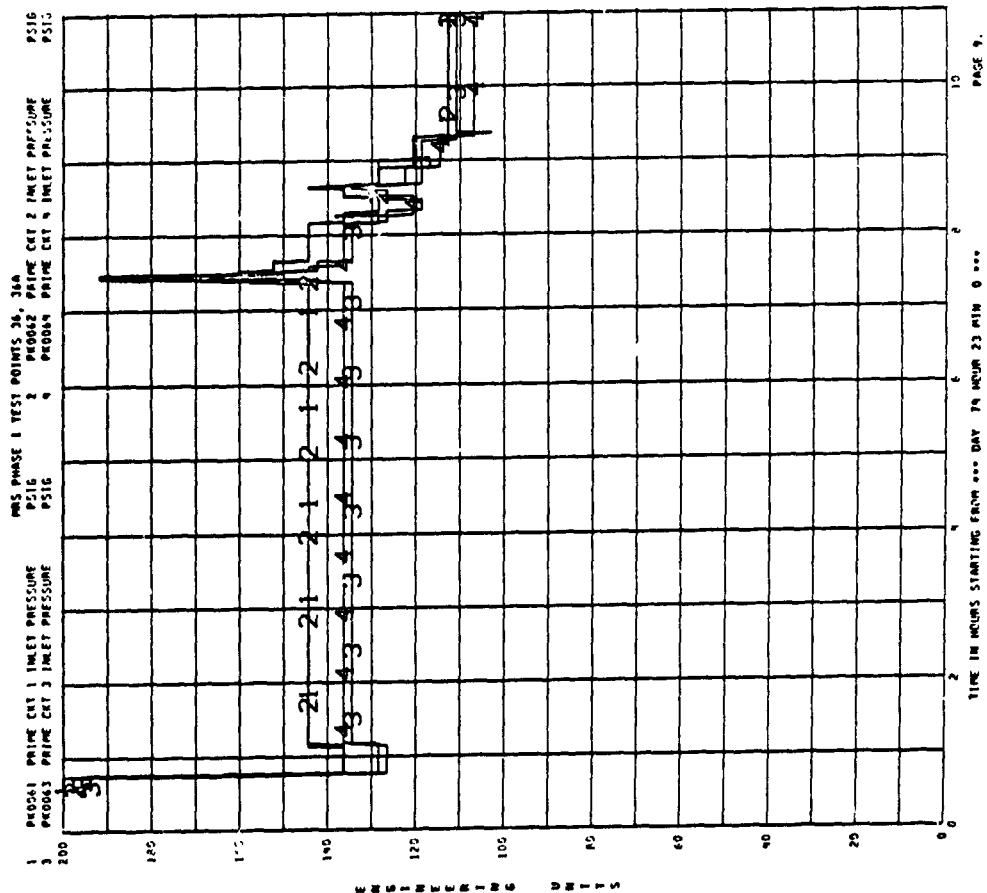




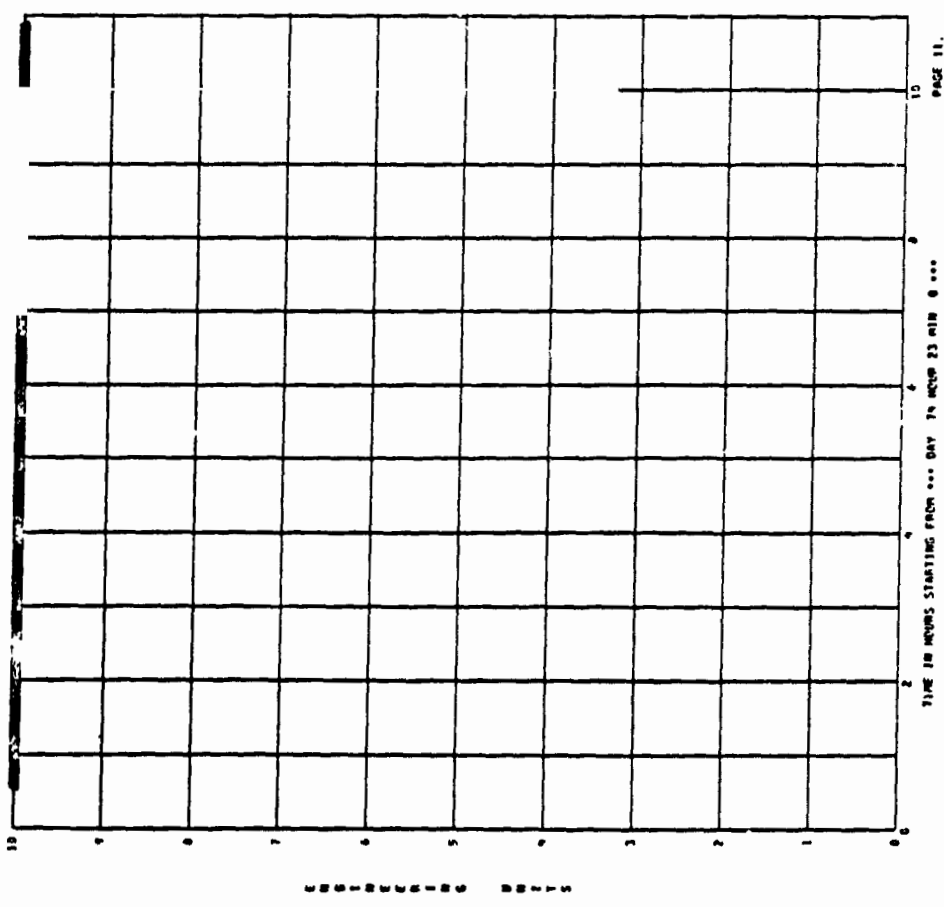






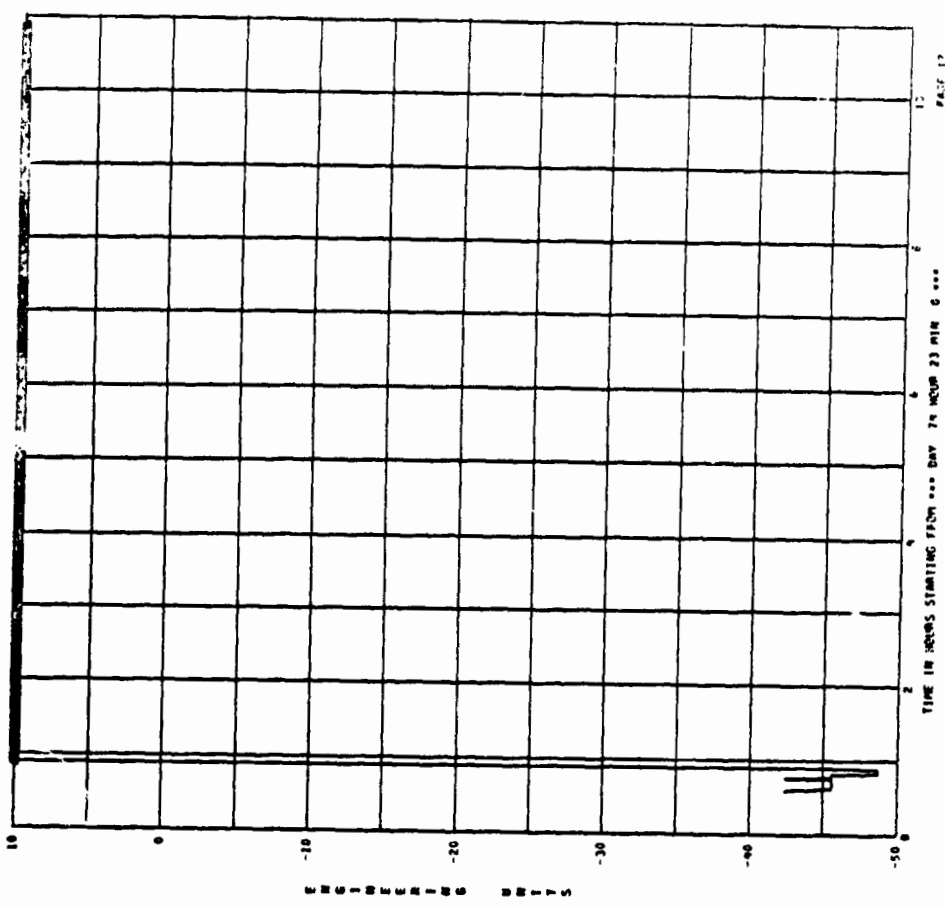


PHASE 1 TEST POINTS 34, 34A  
AT5001 PRTM SYSTEM INLET



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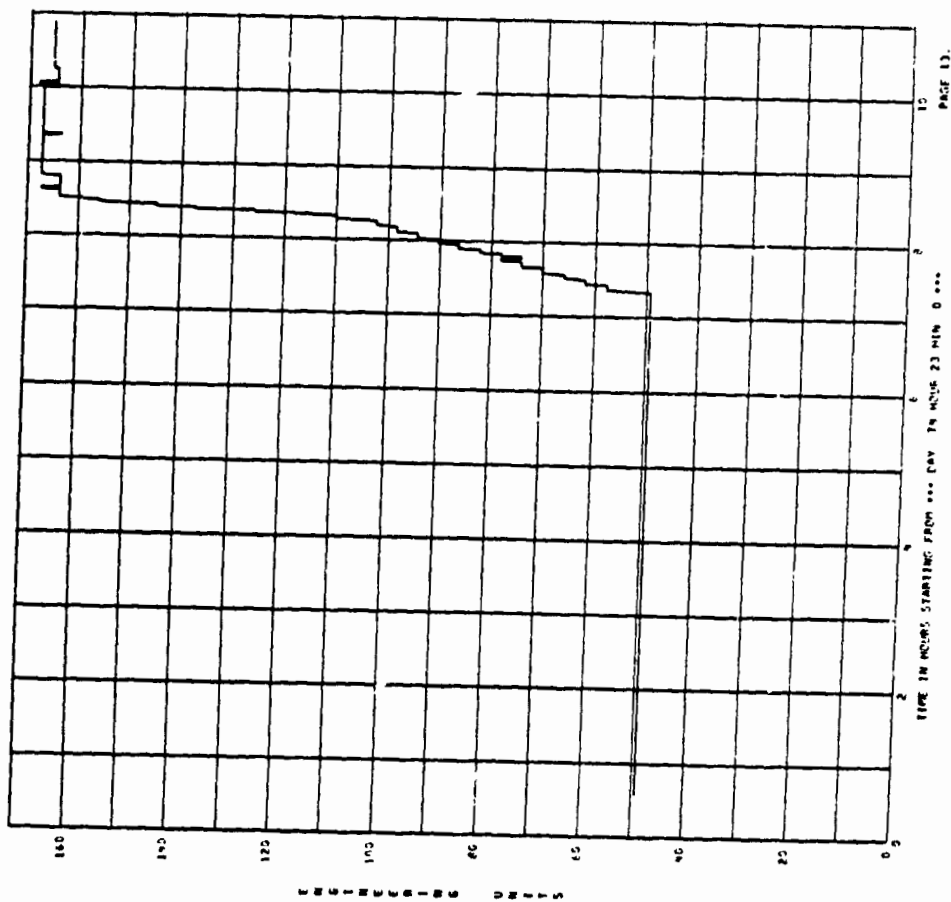
PHASE 1 TEST POINTS 34, 34A  
AT5002 BANK SYSTEM INLET



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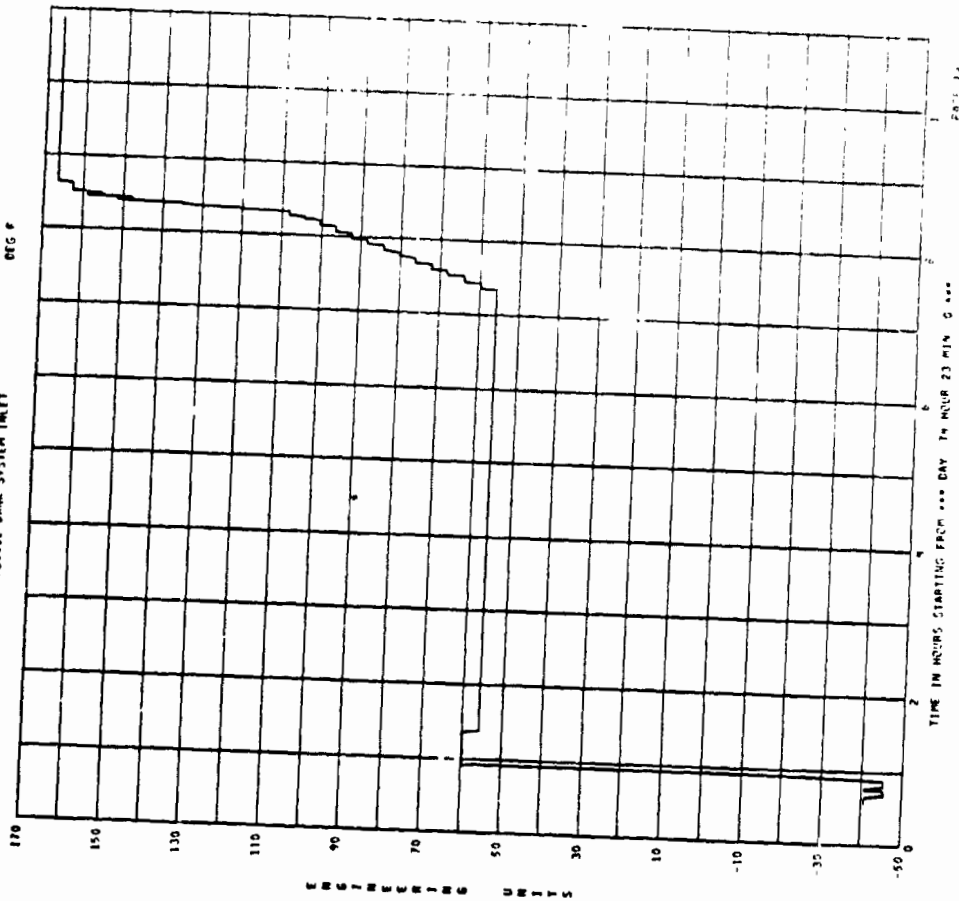


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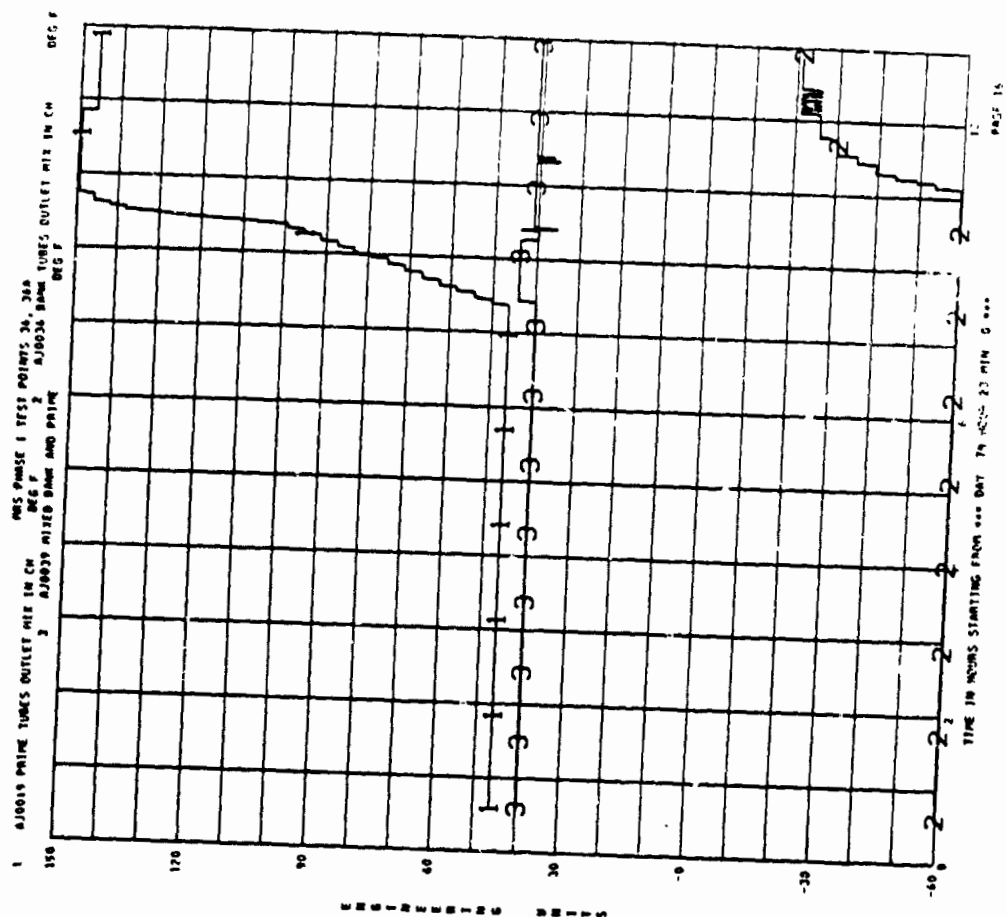
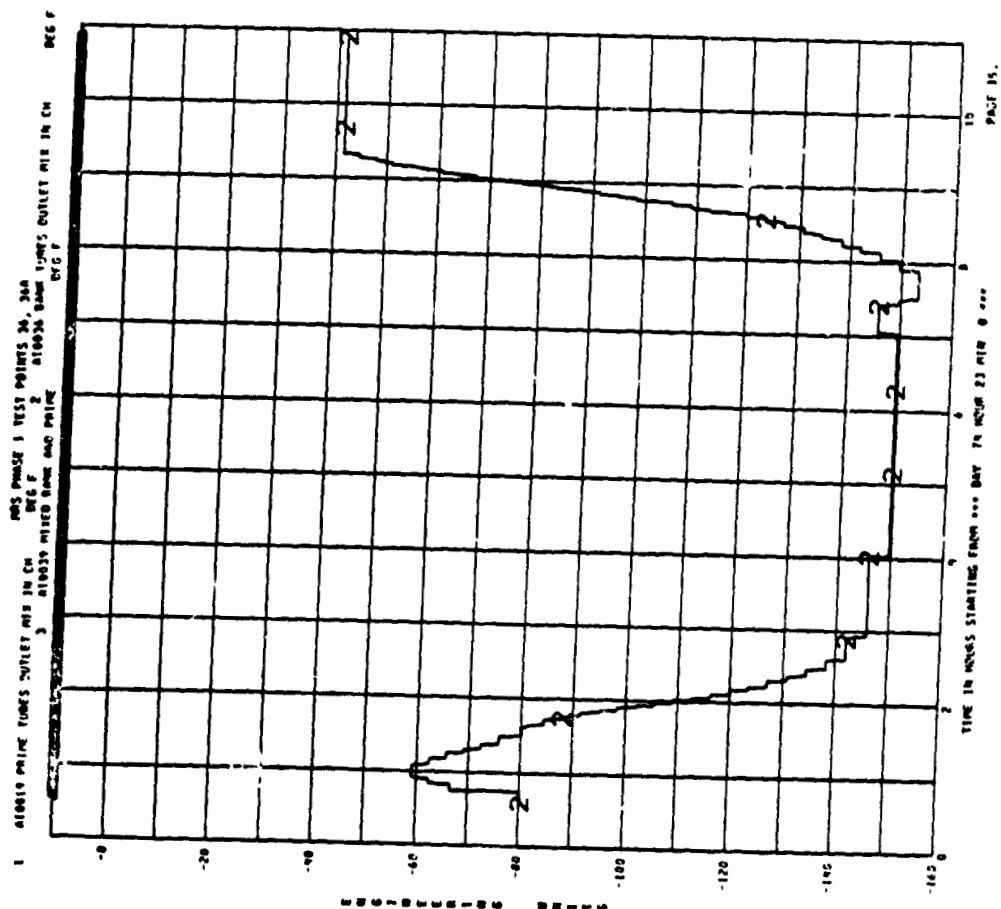


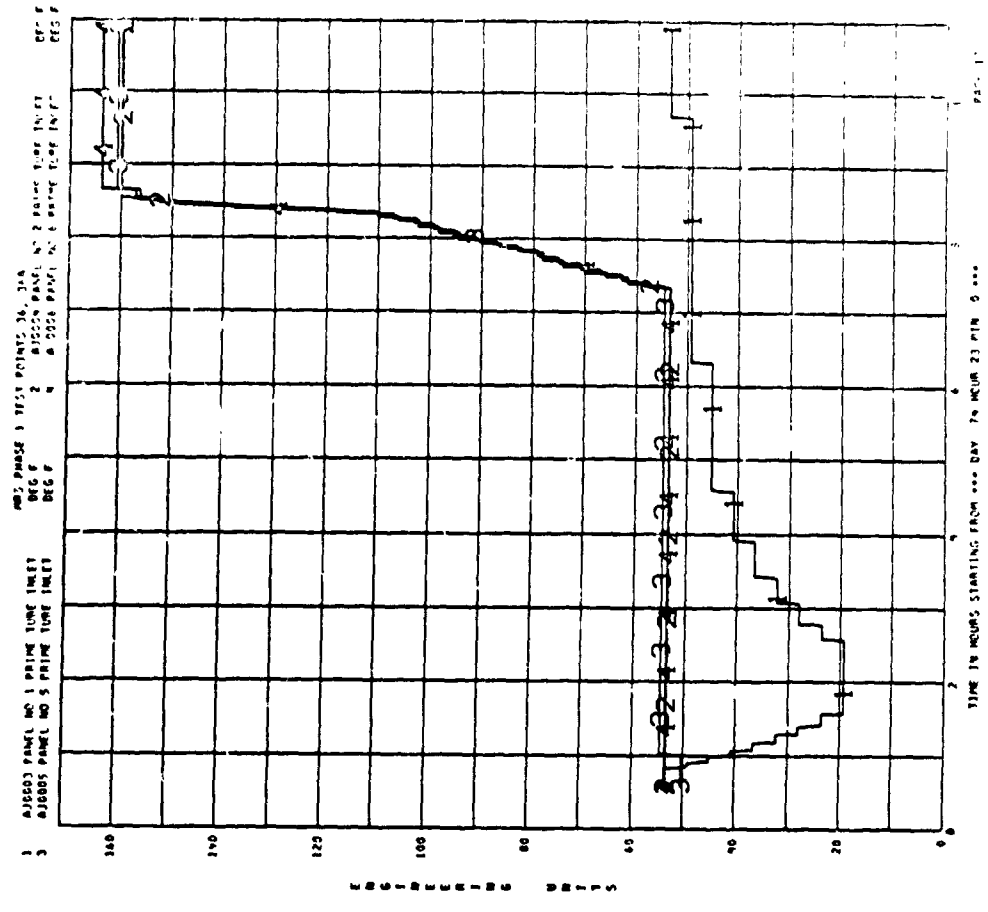
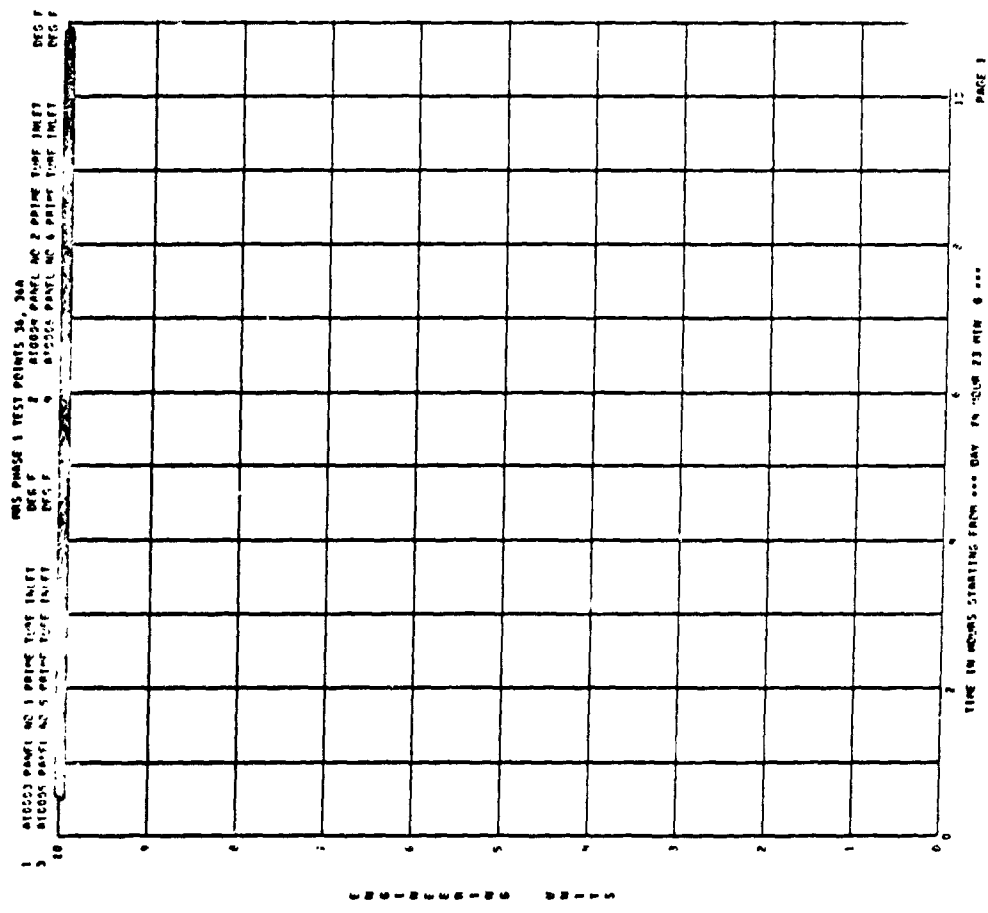
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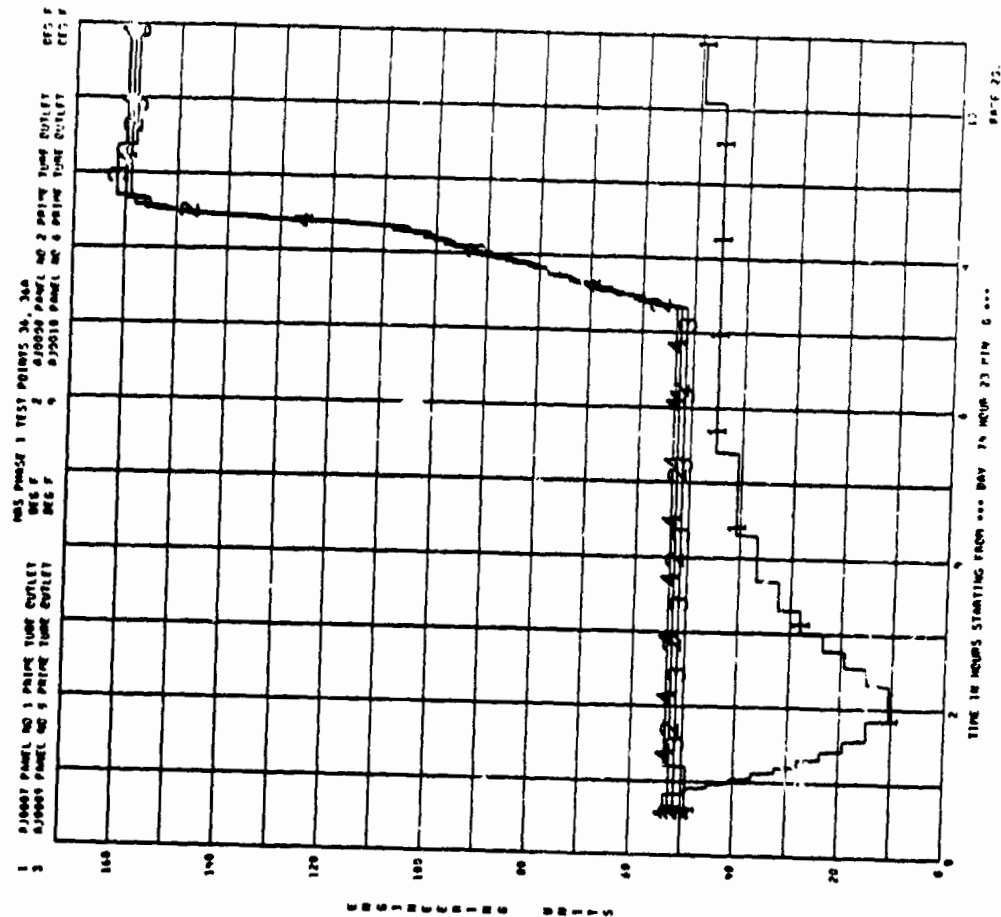
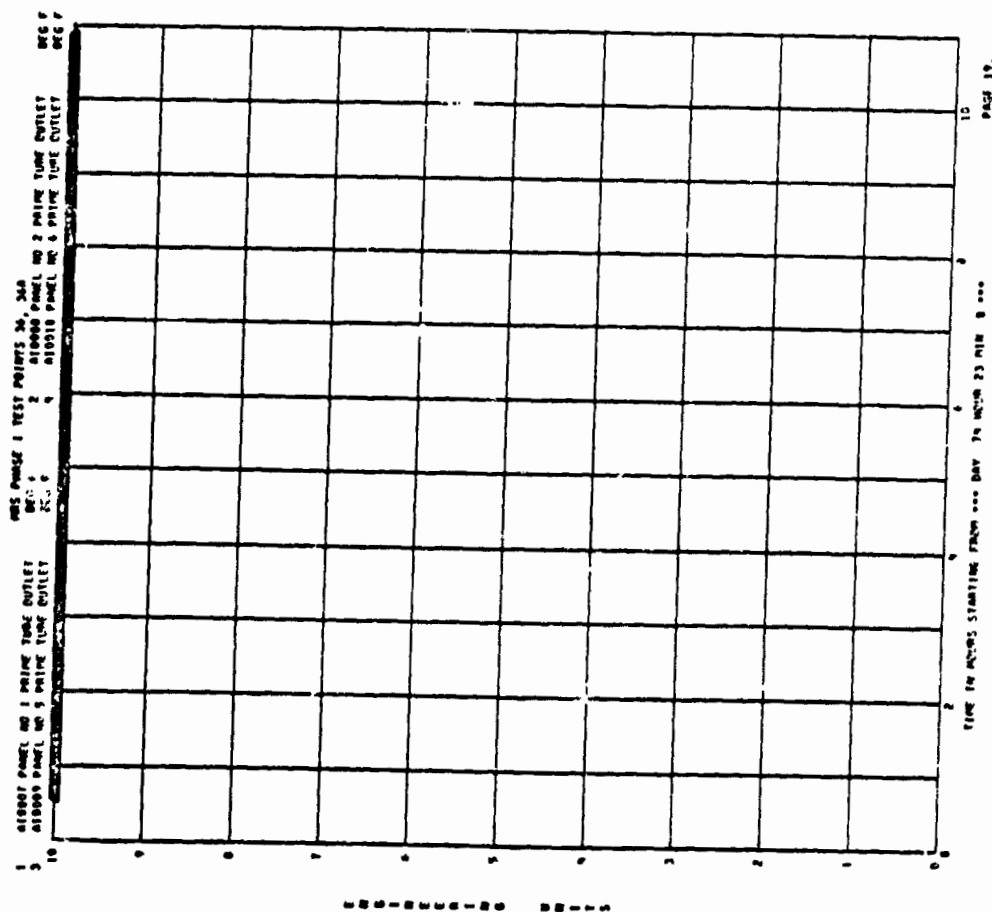
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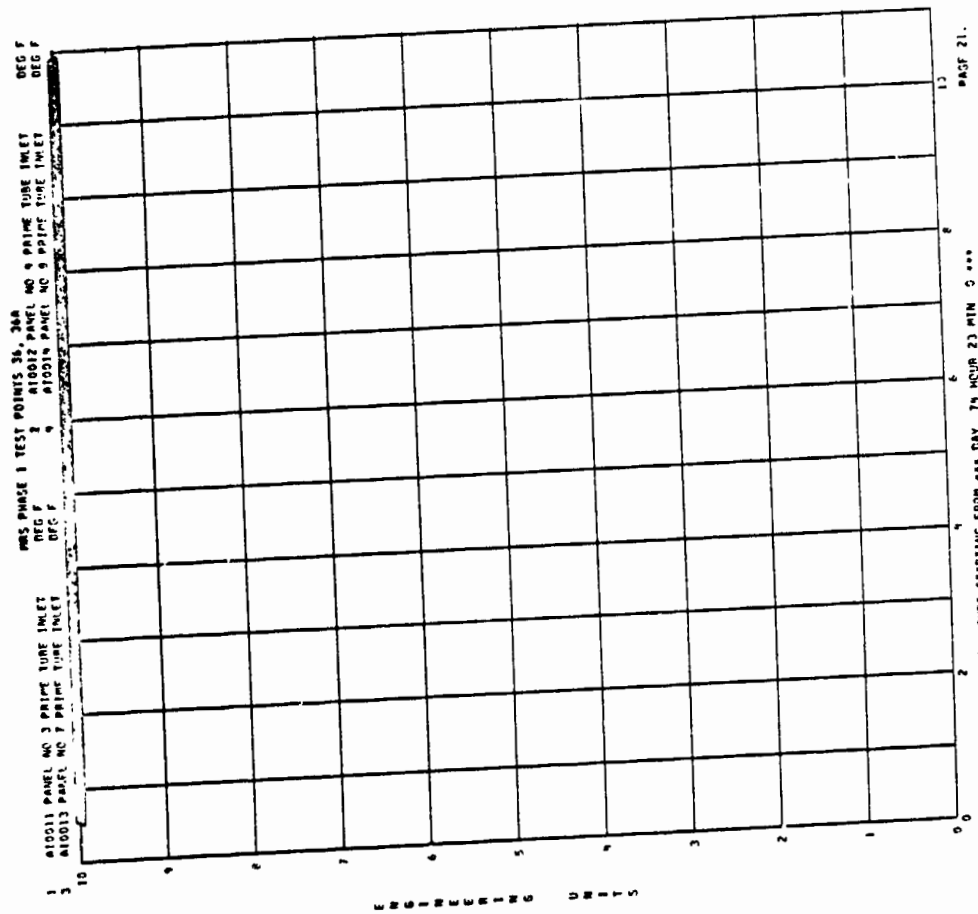
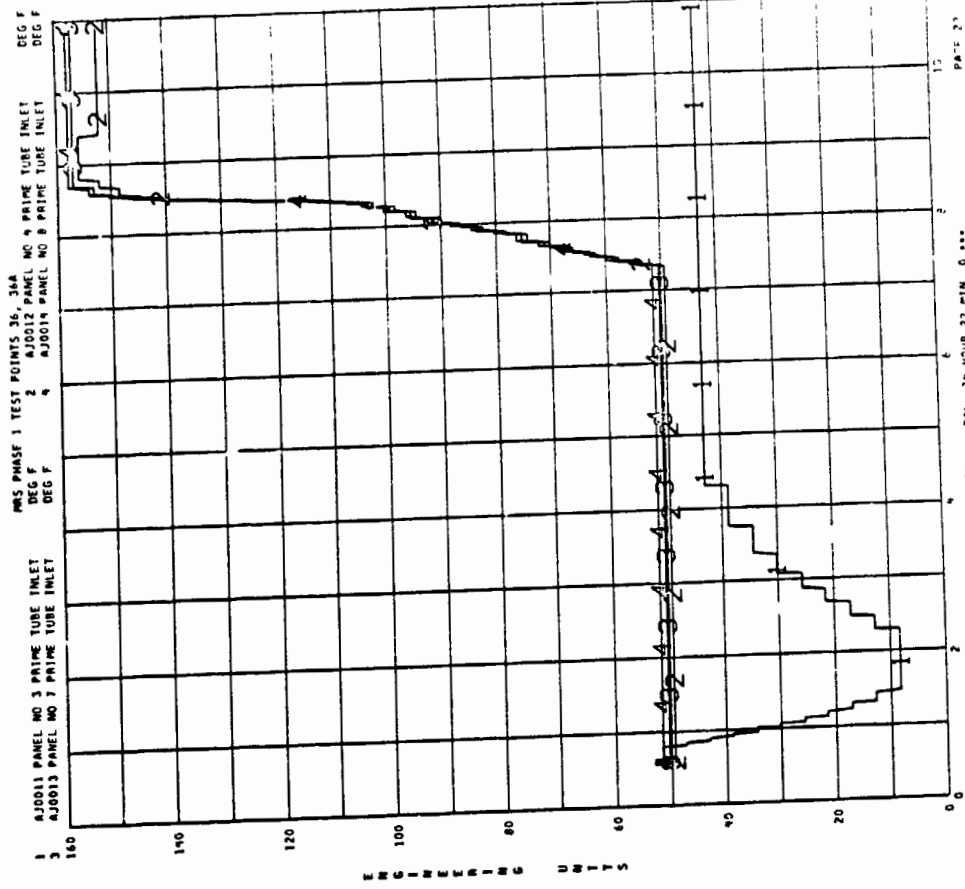


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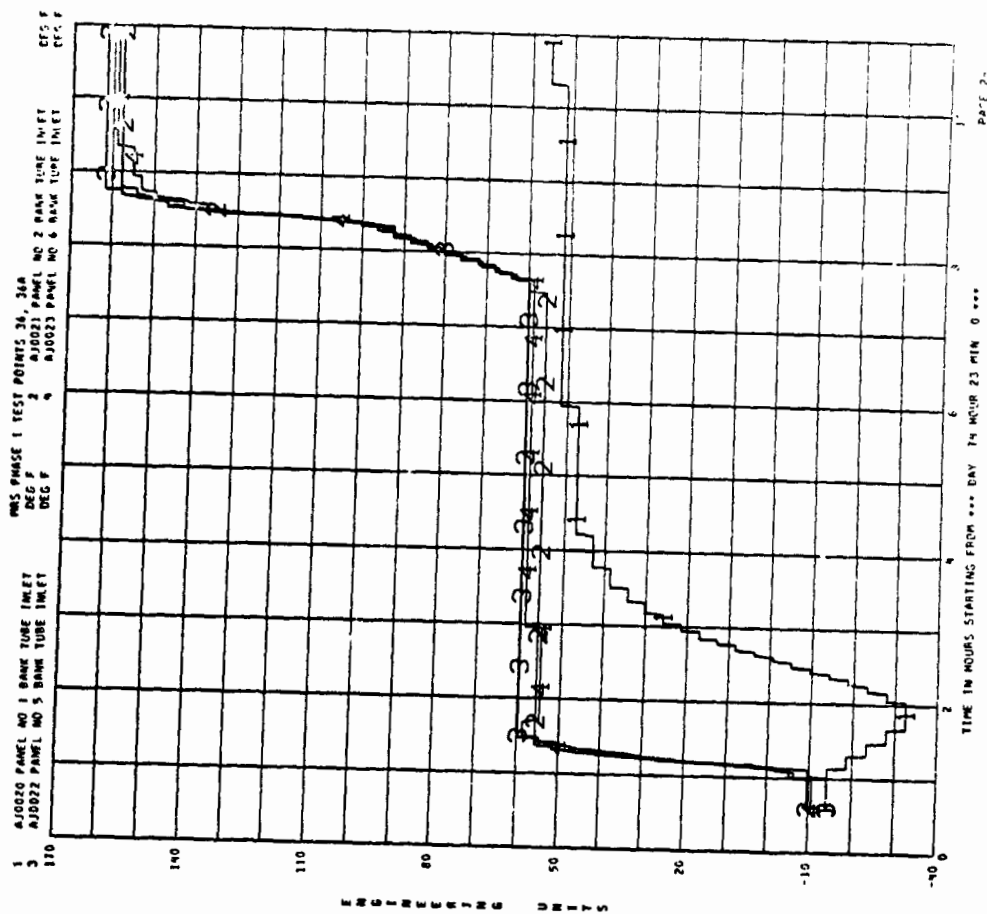
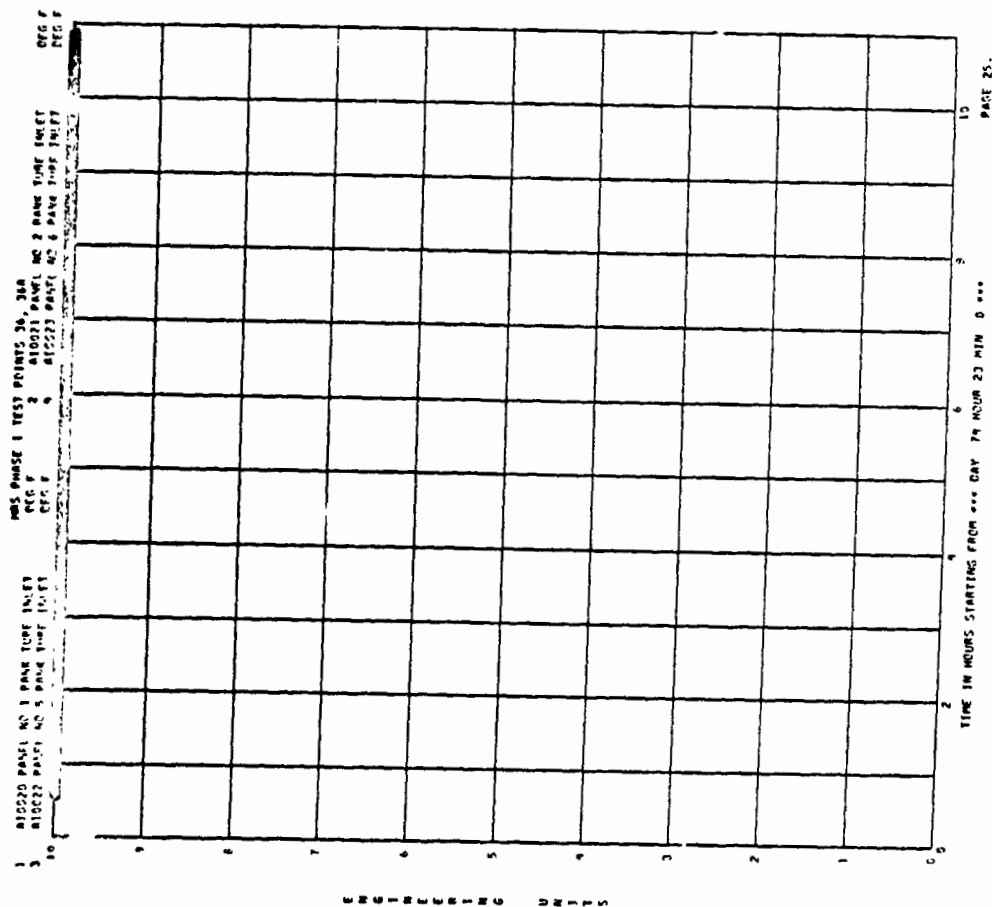


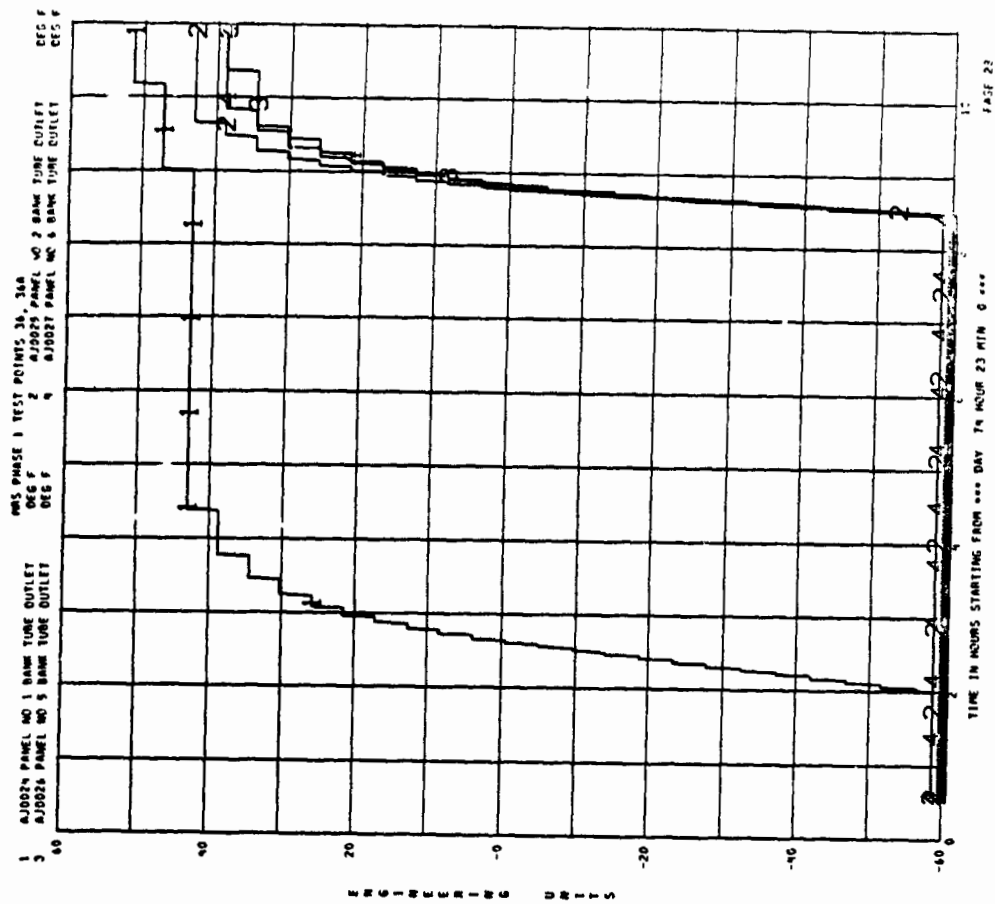
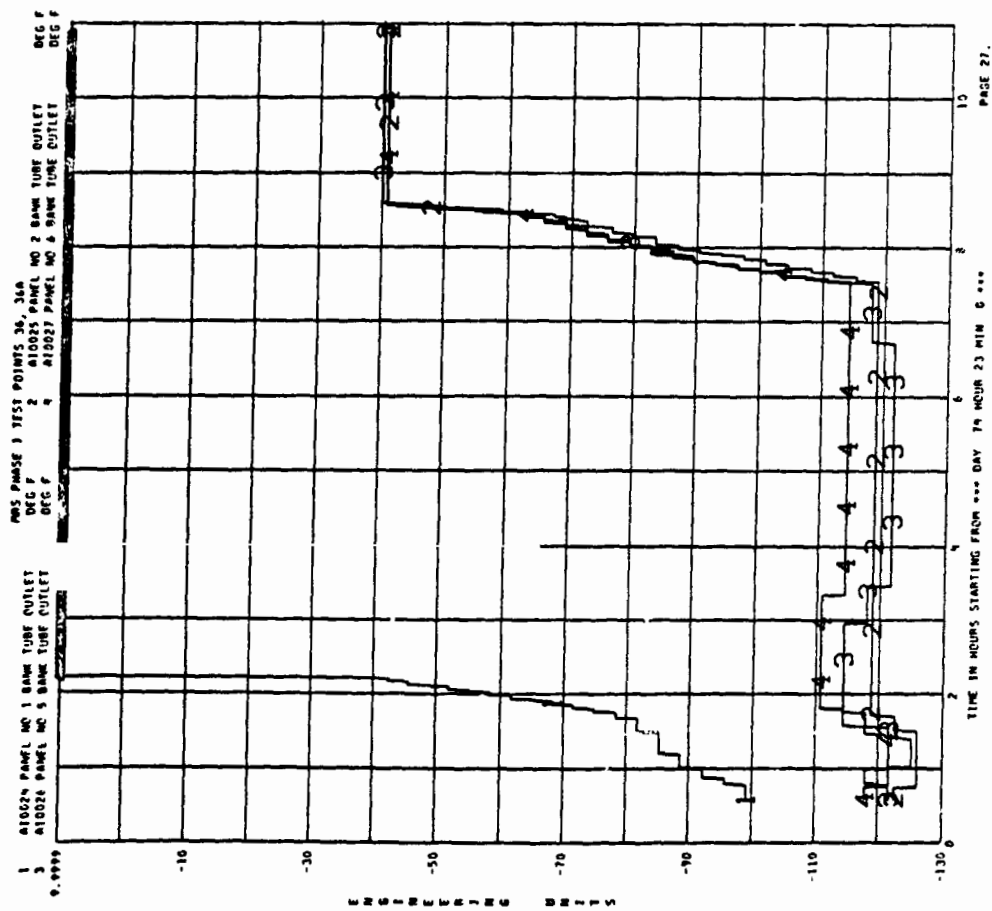


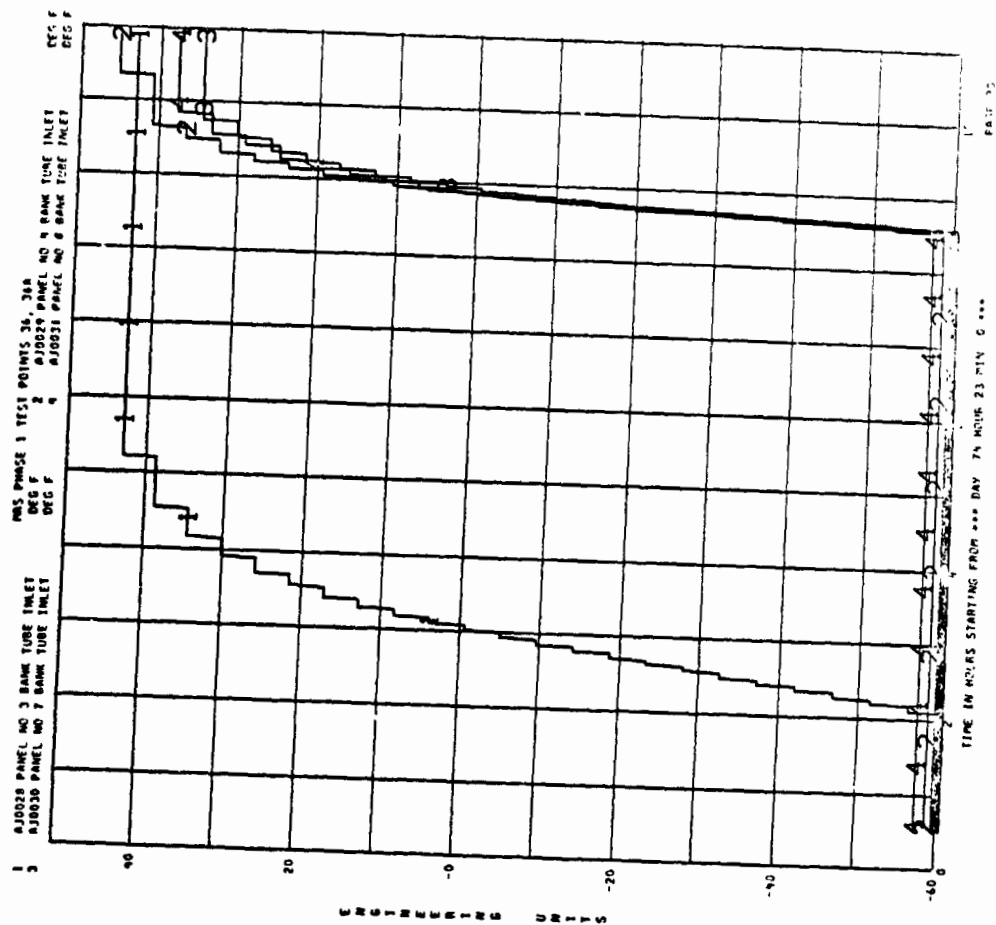
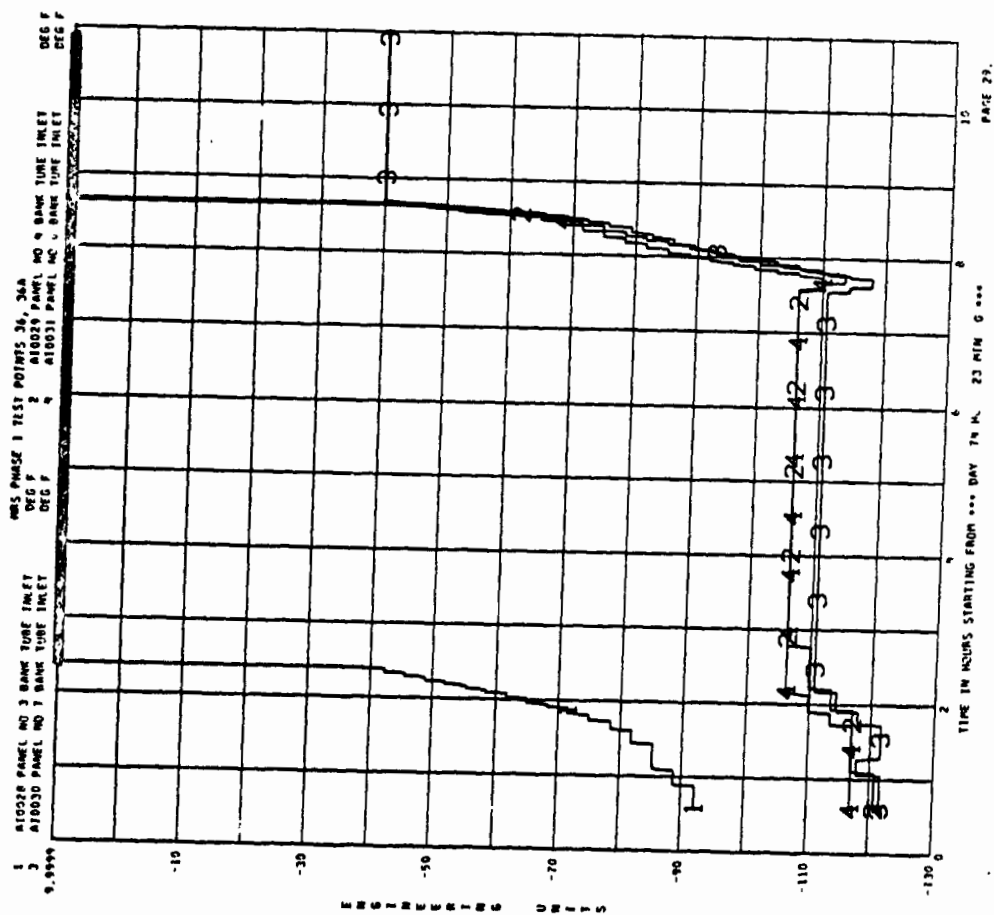


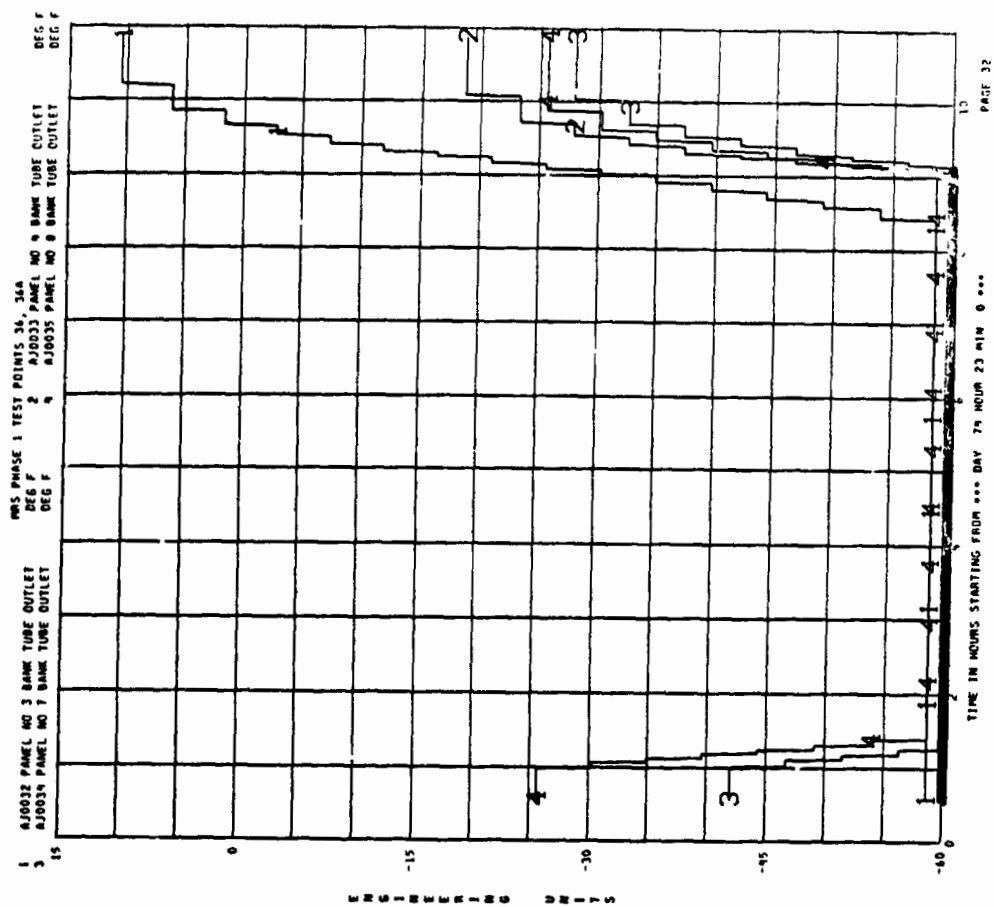
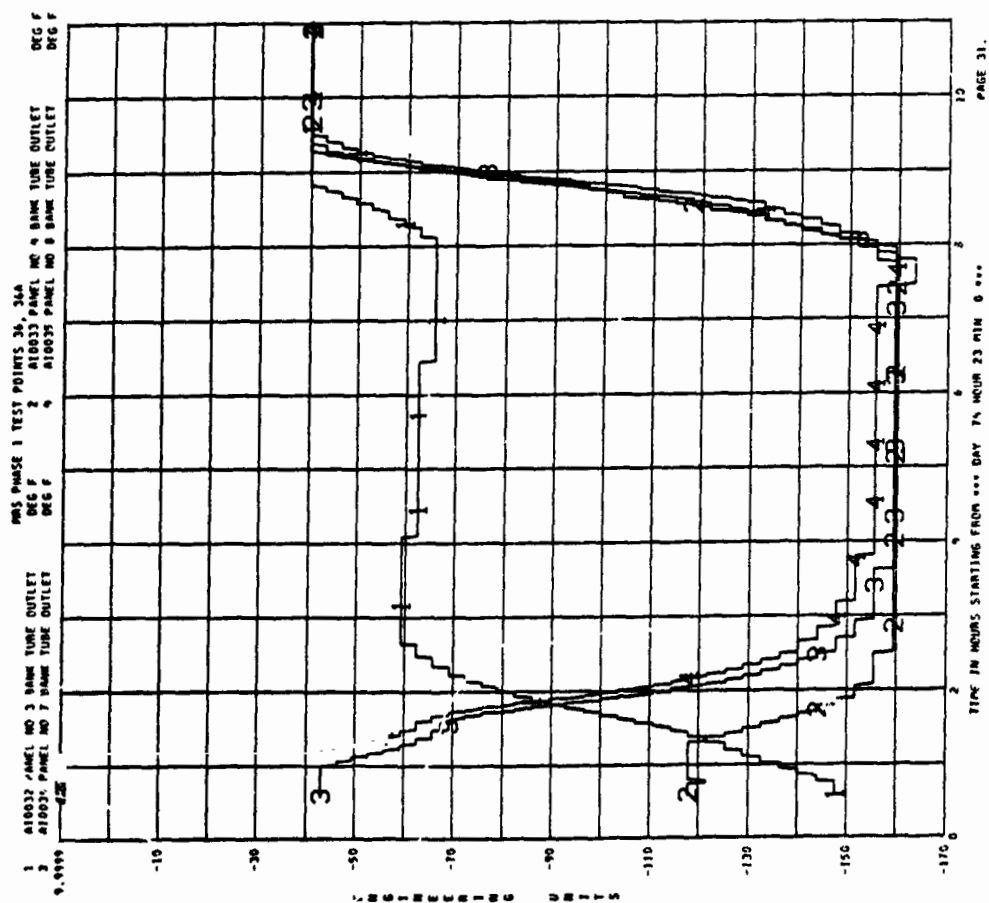




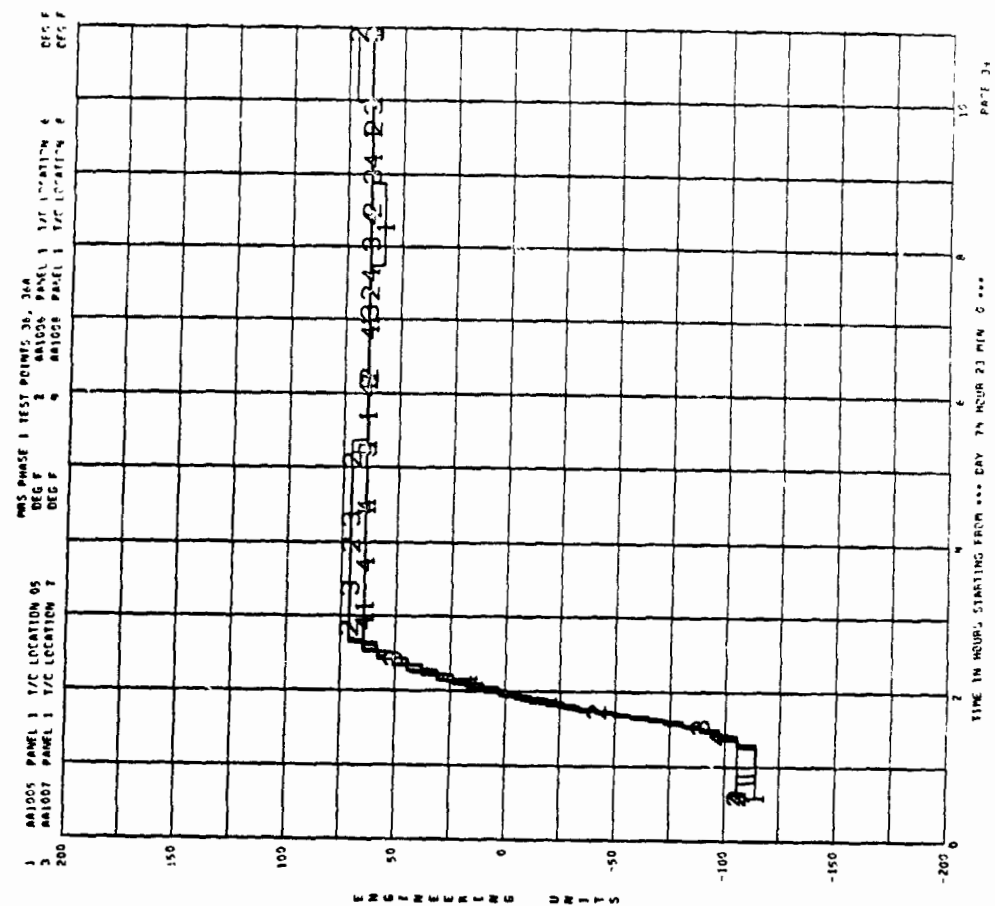
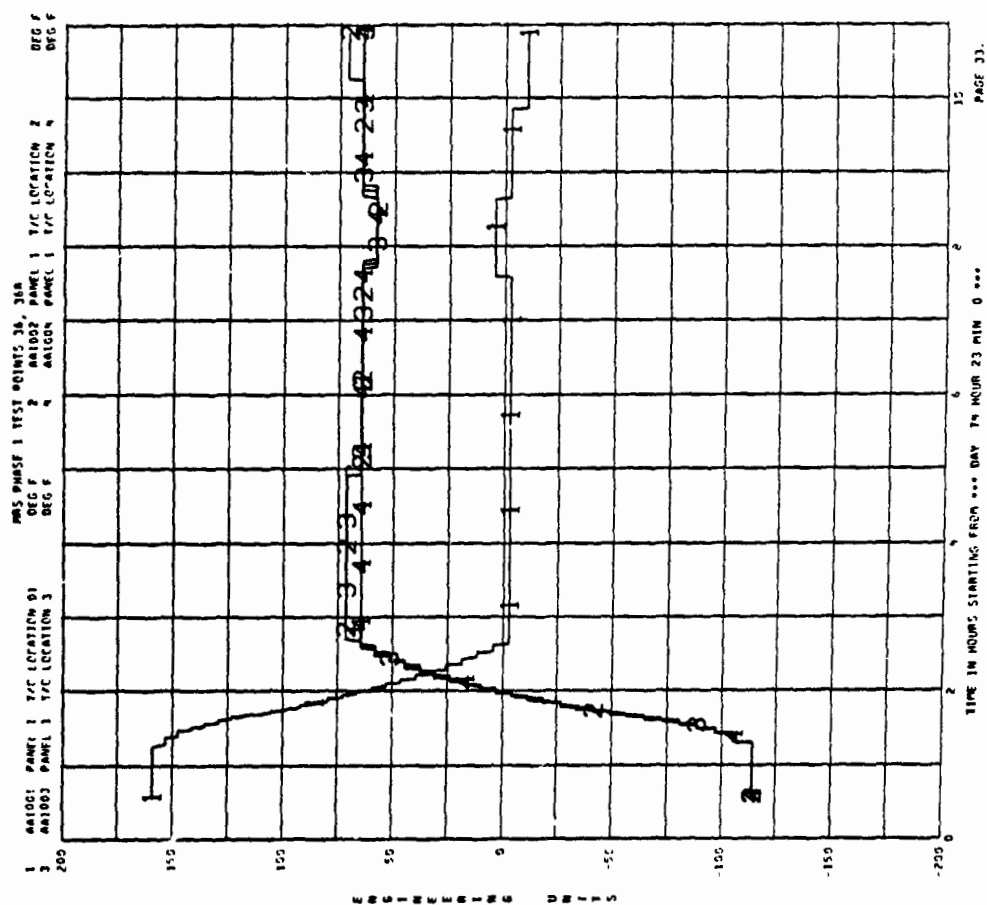


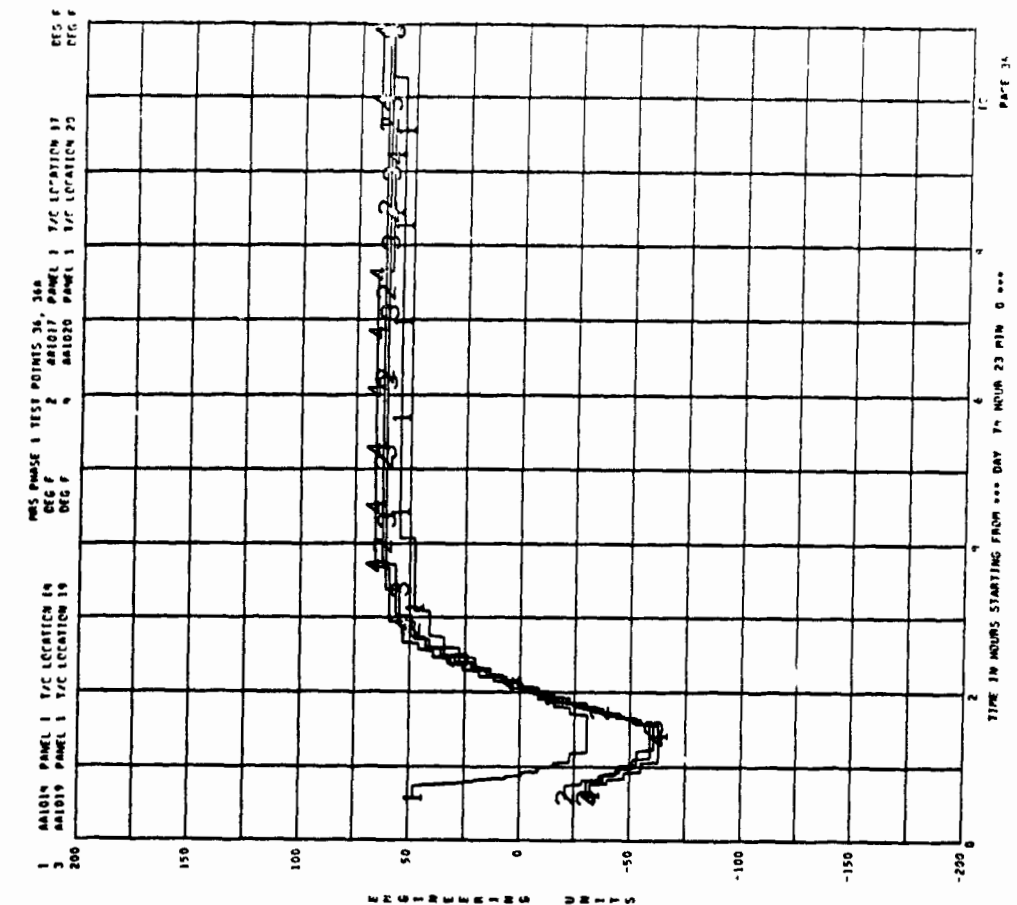
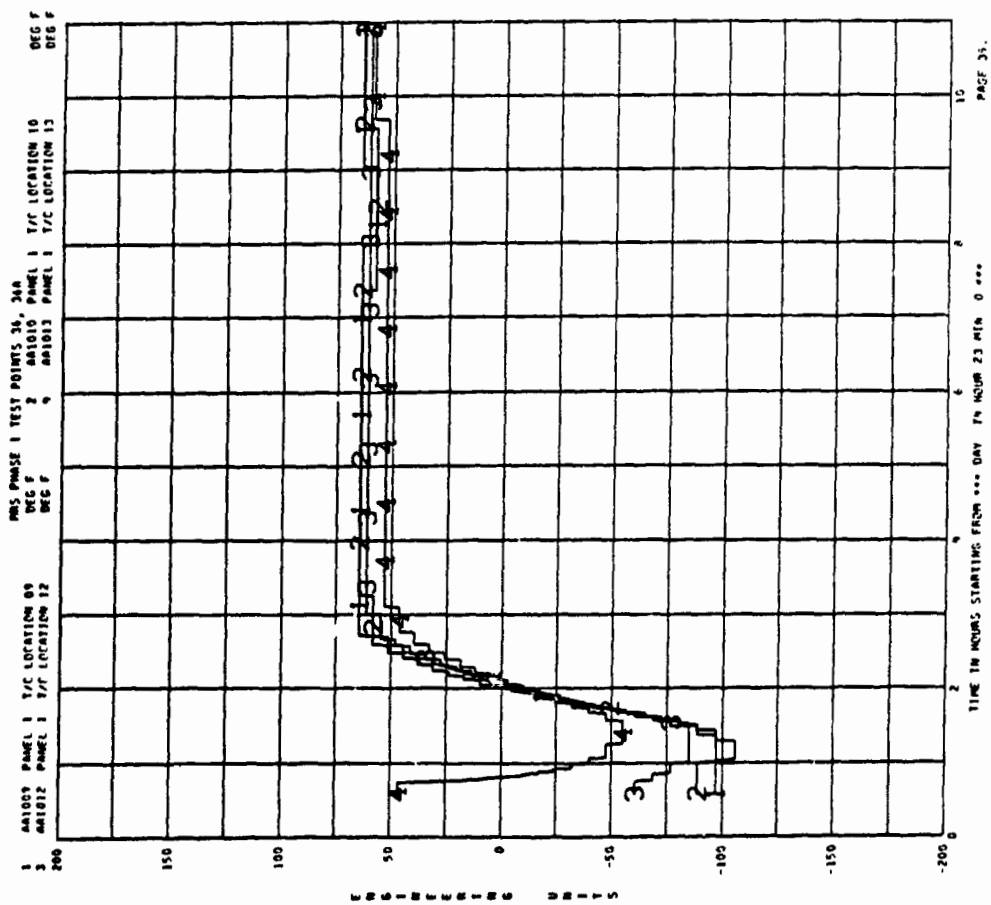


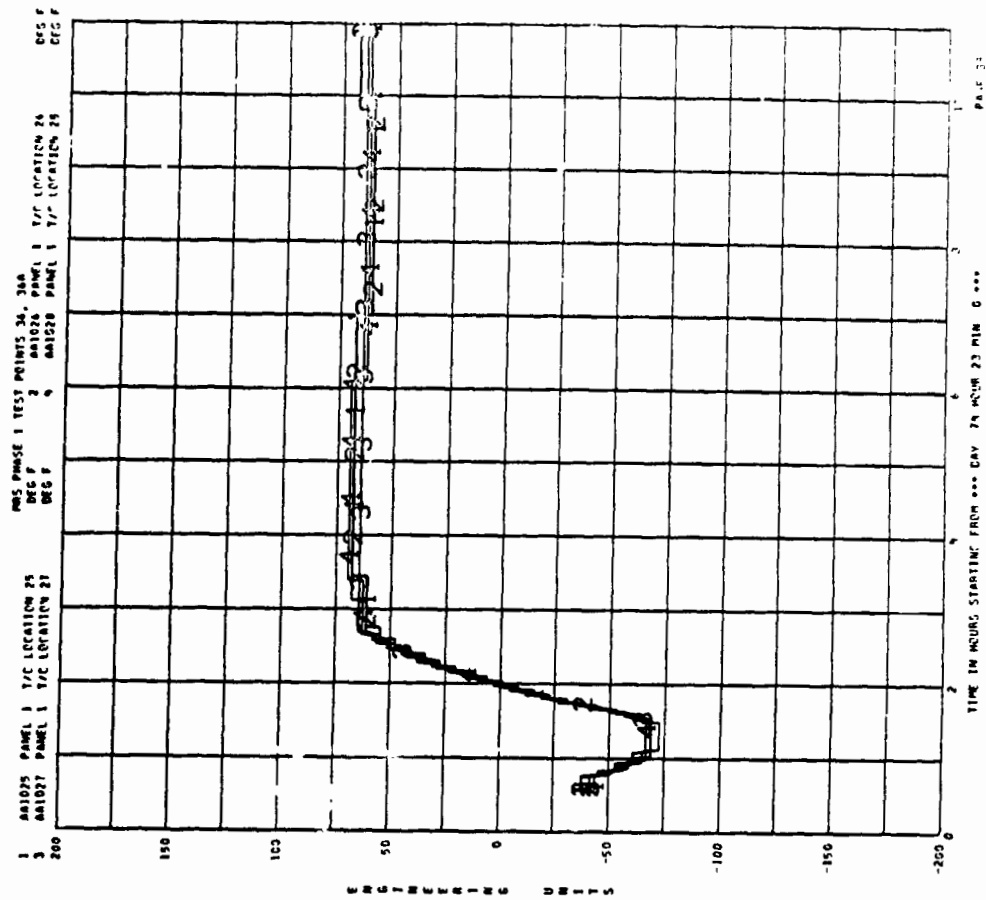
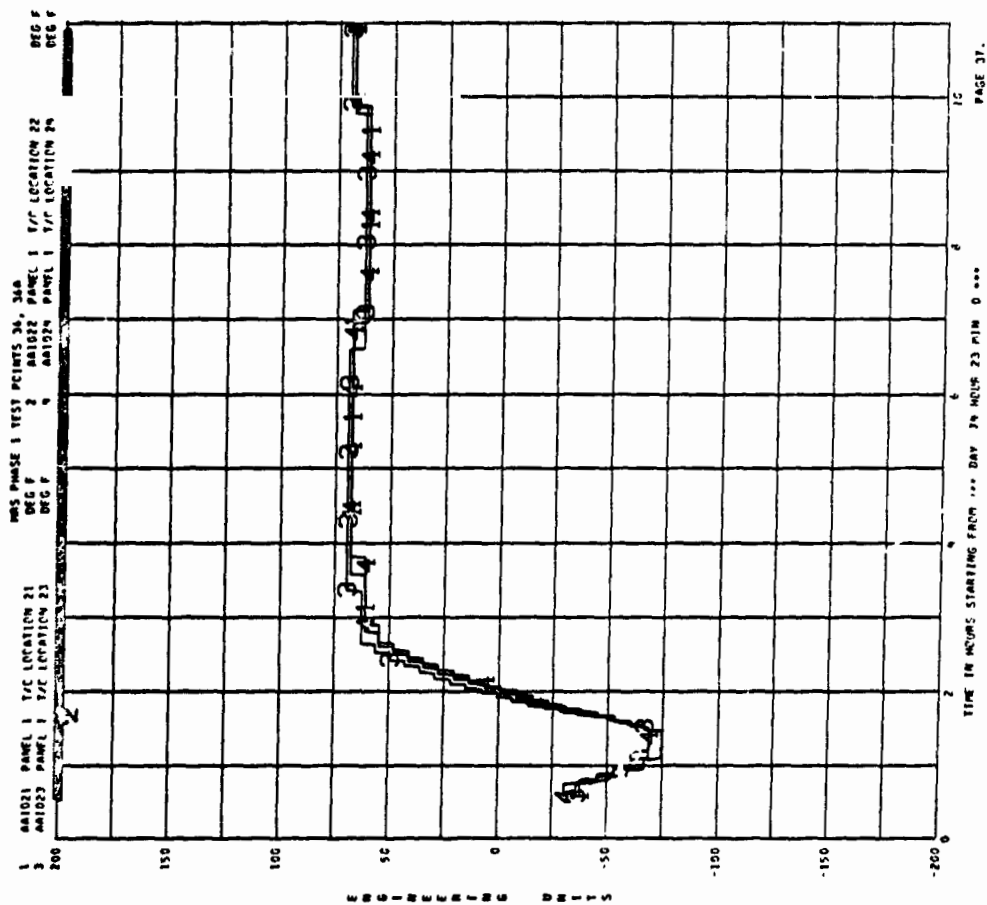


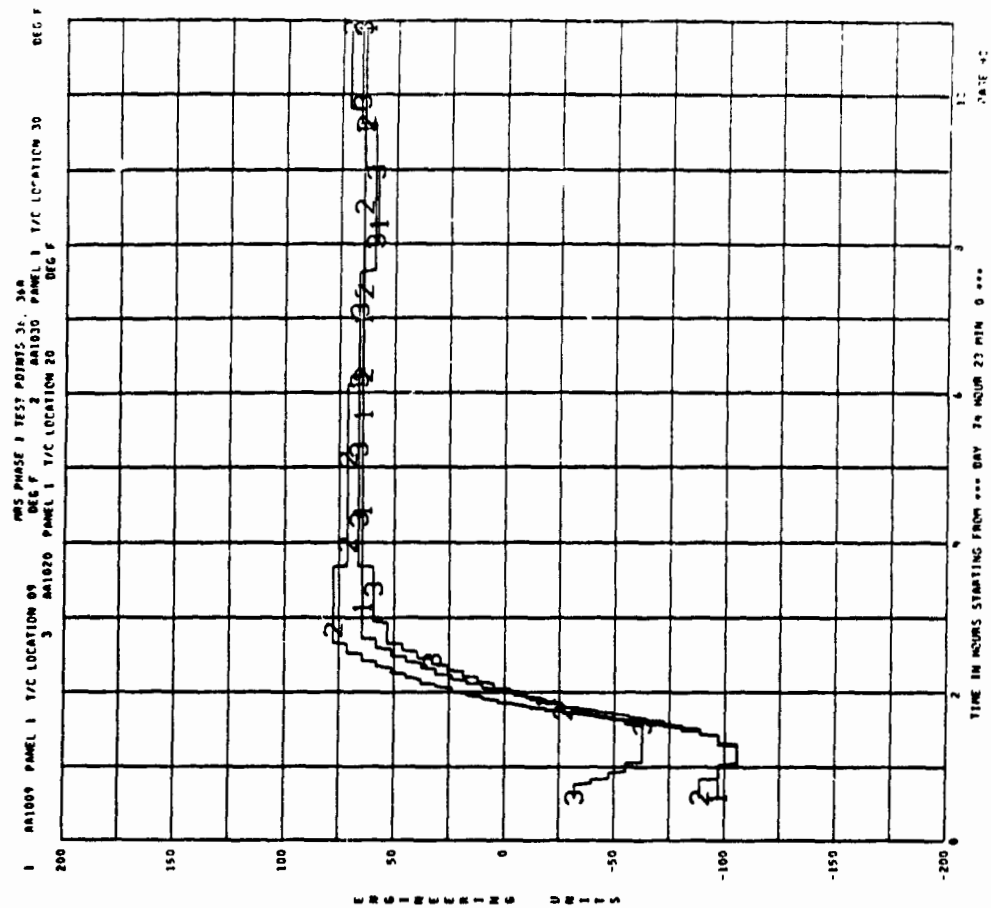
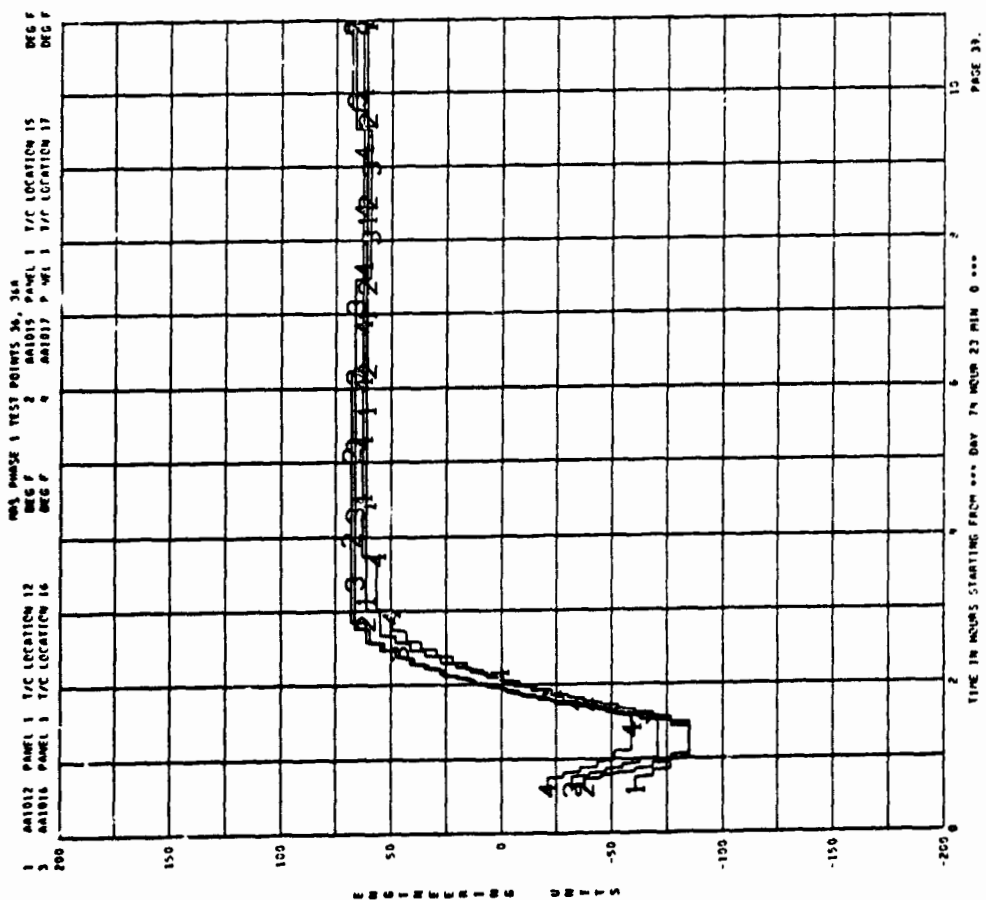






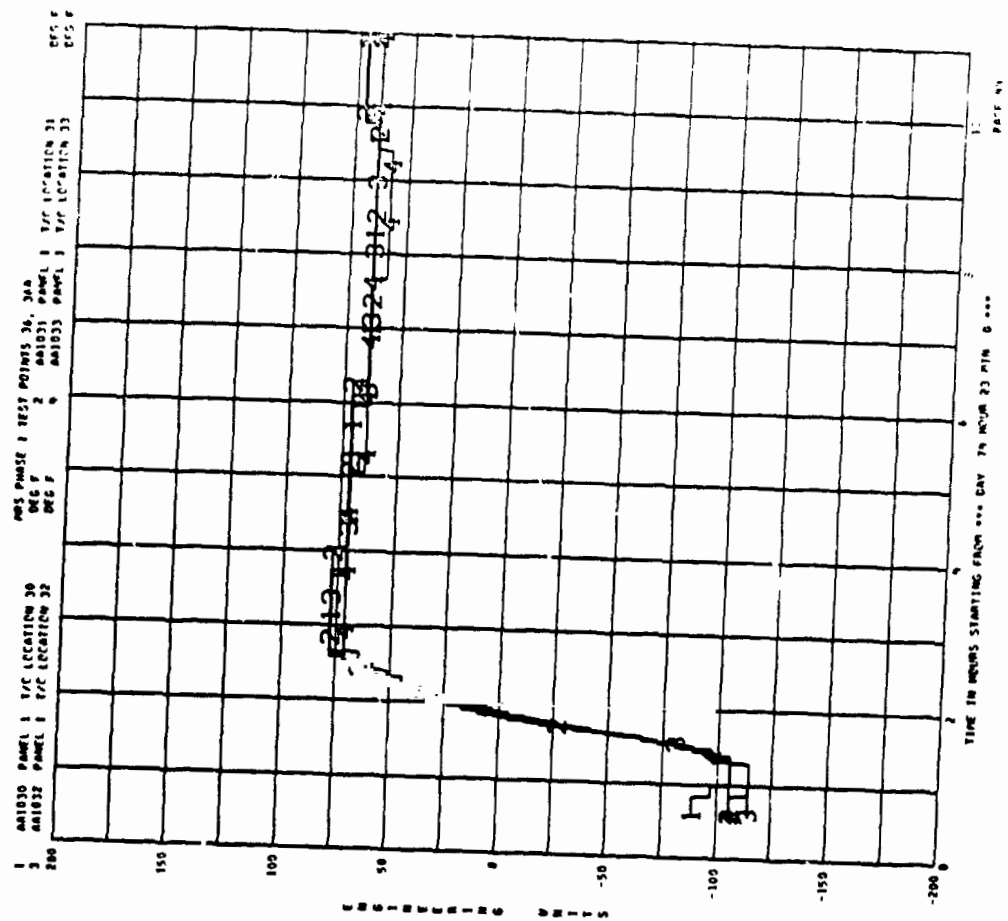
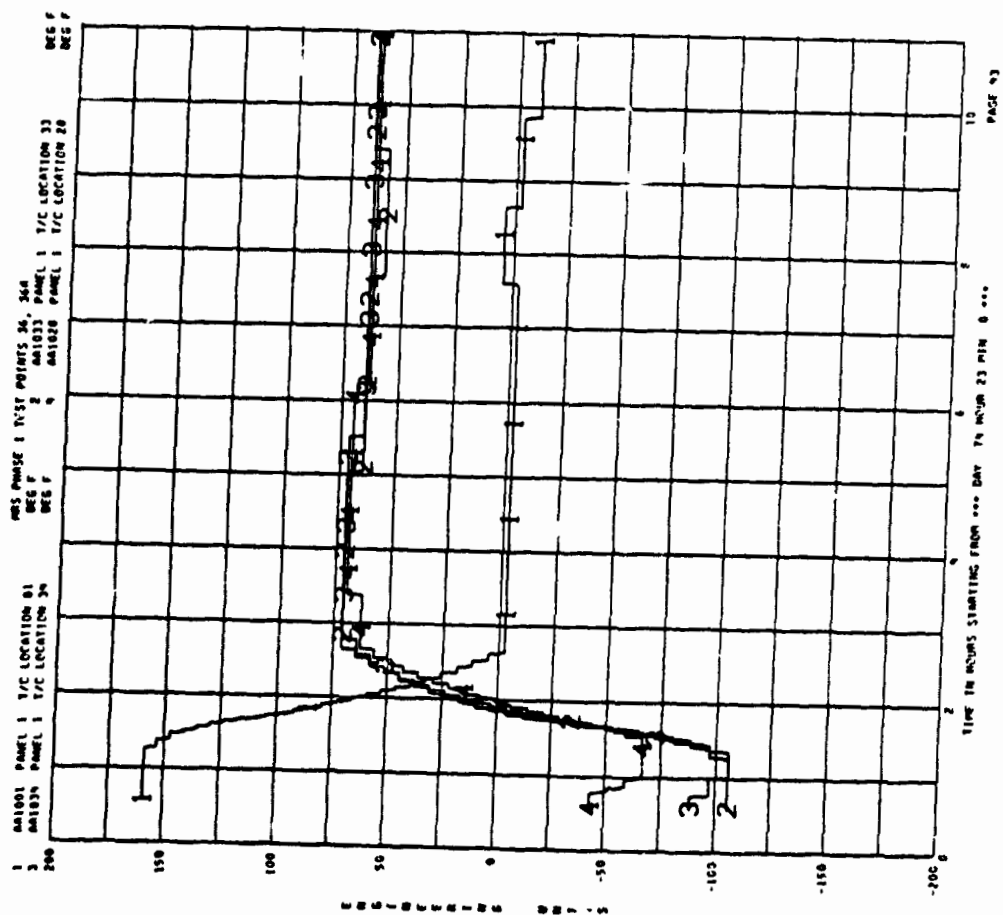


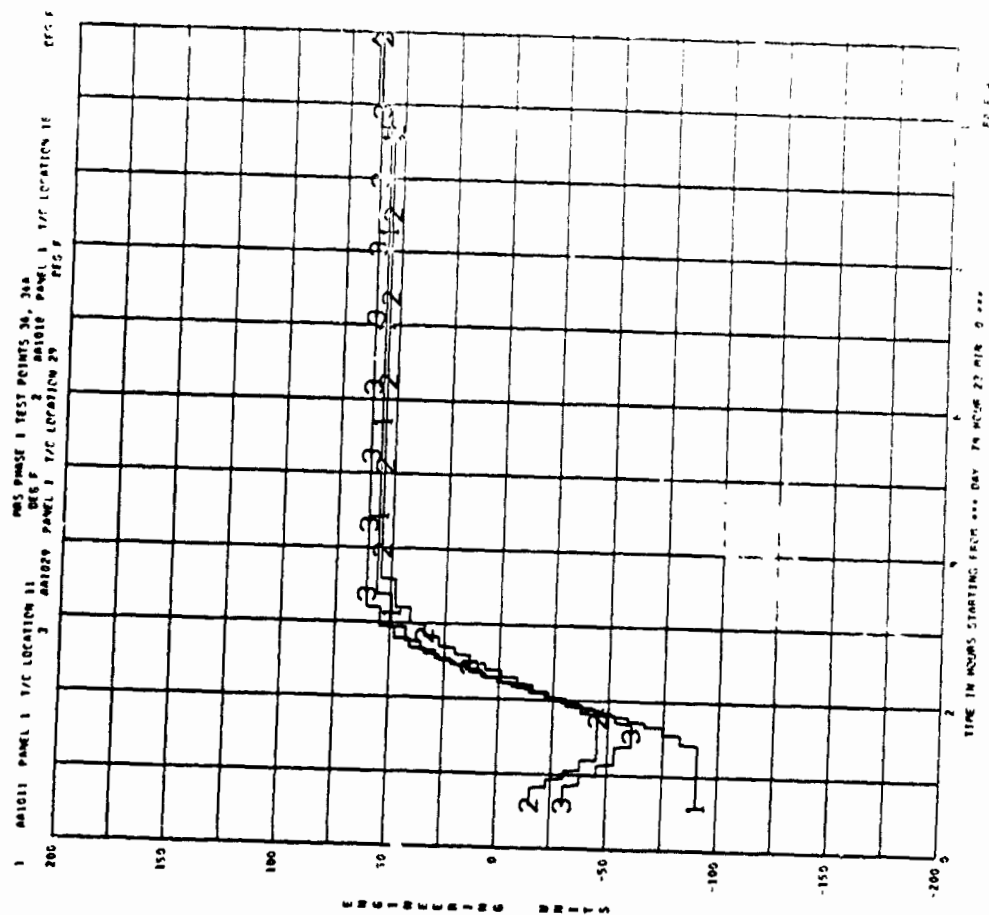
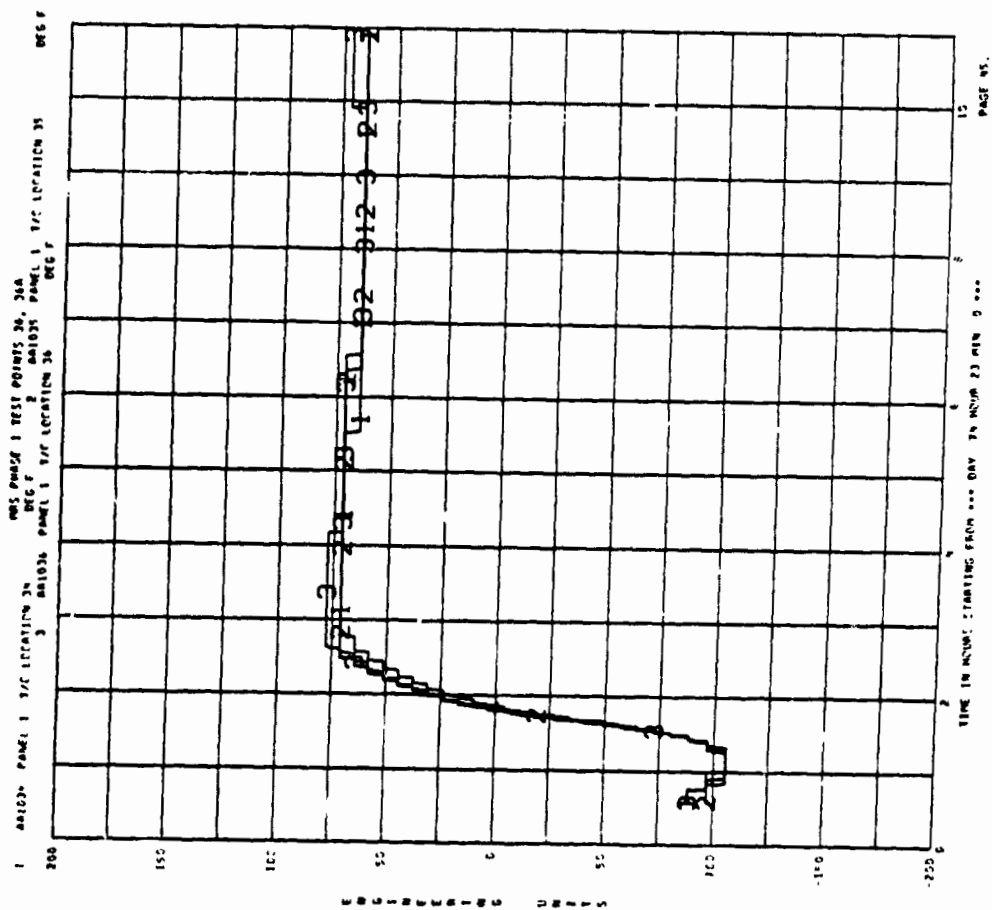




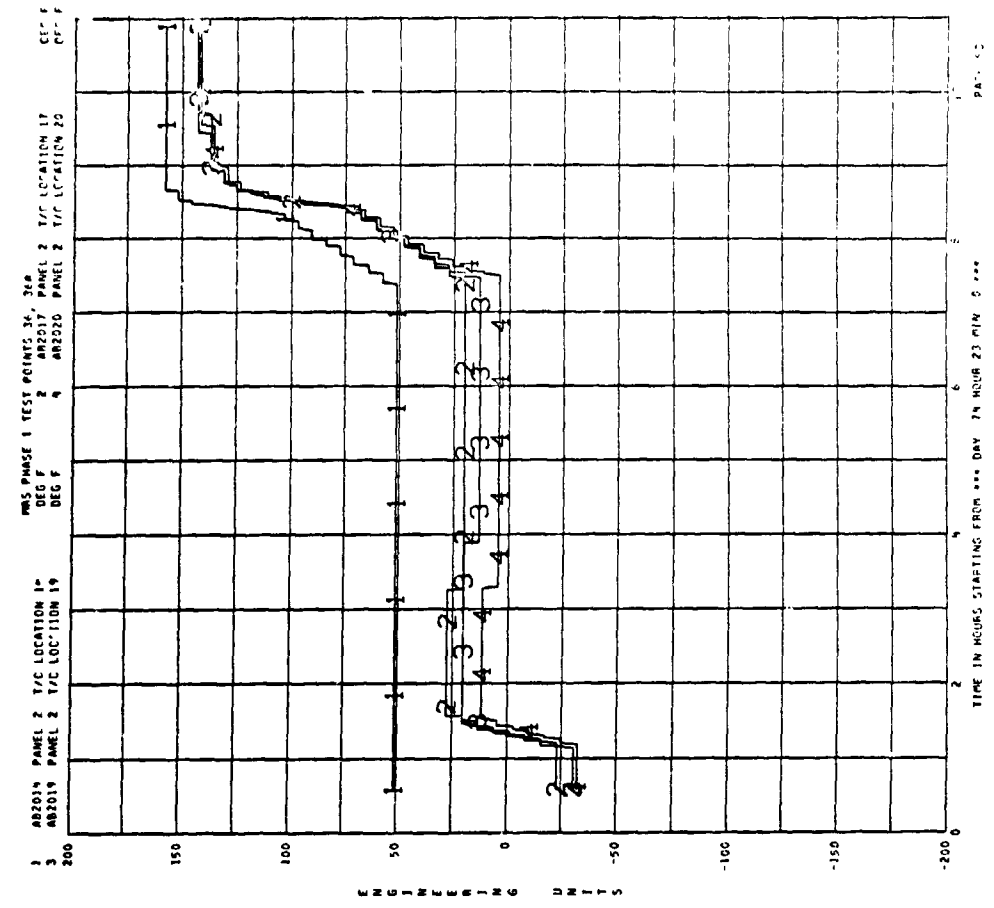
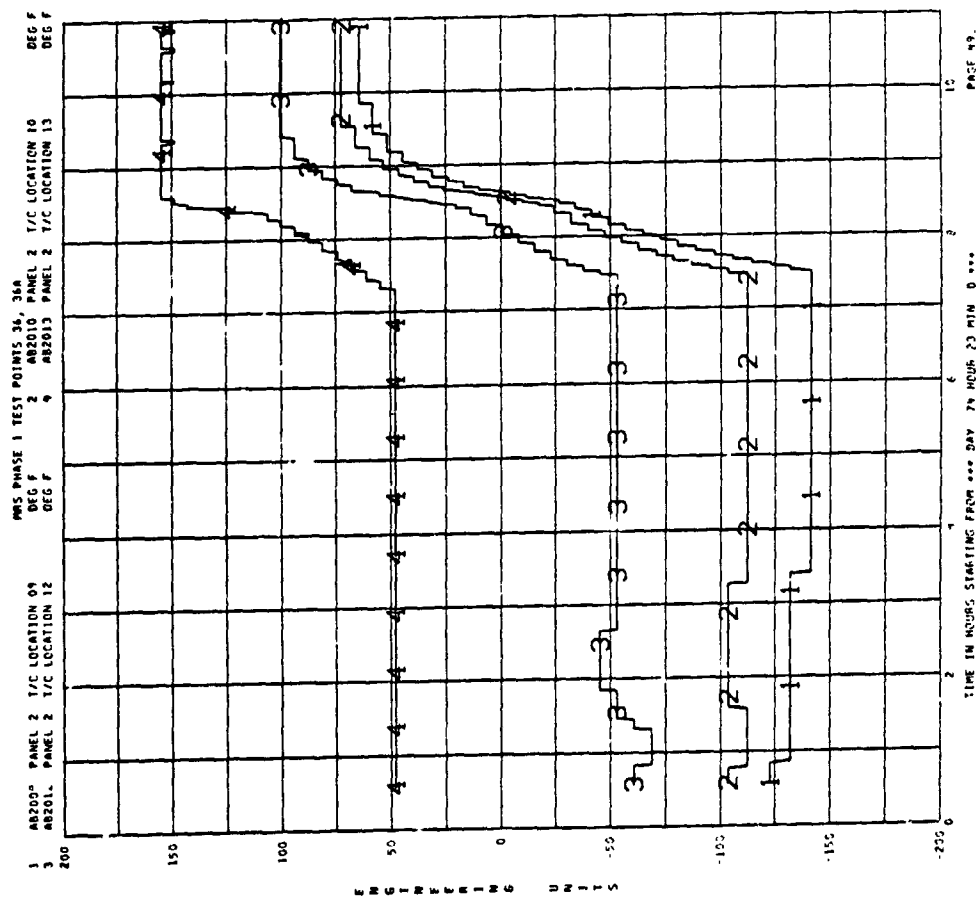


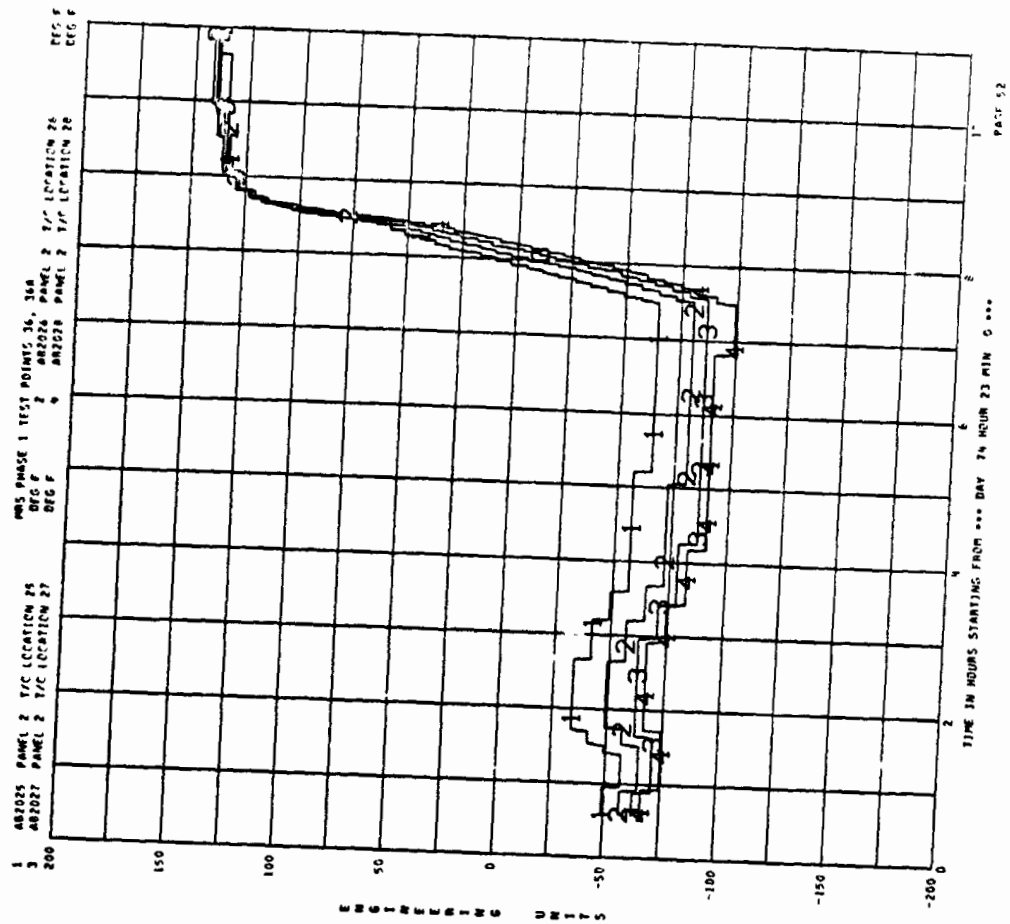
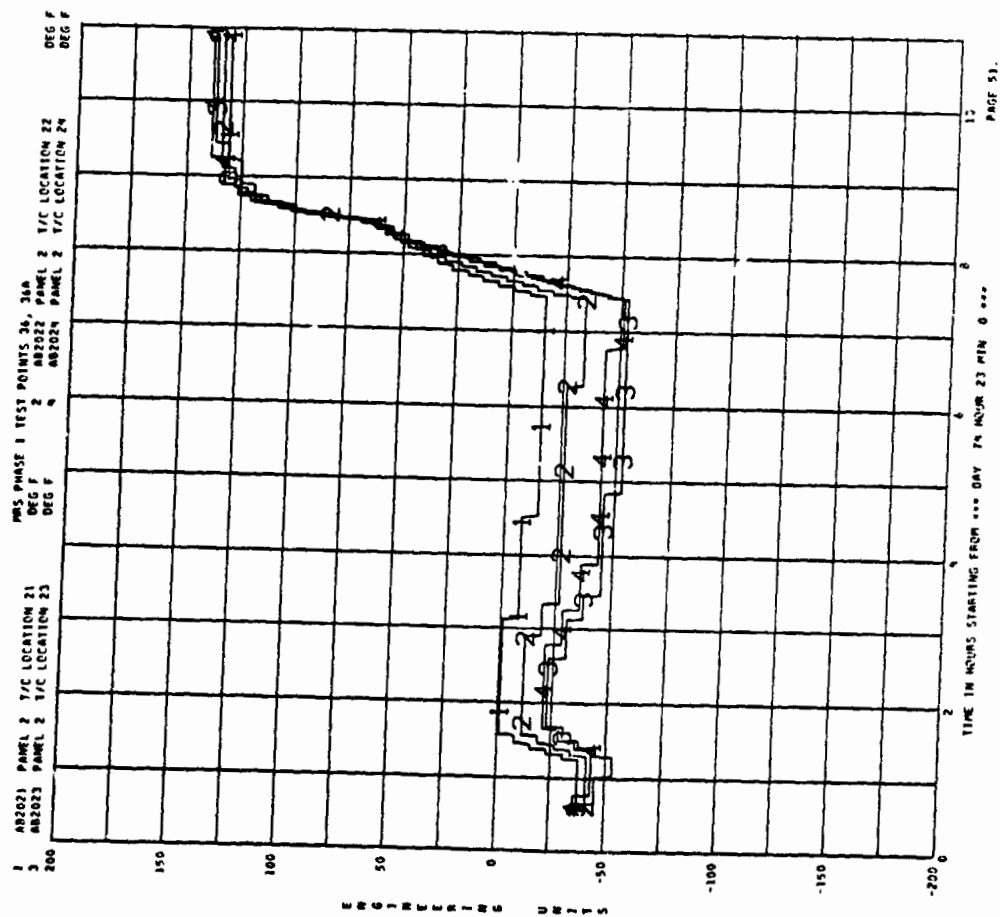


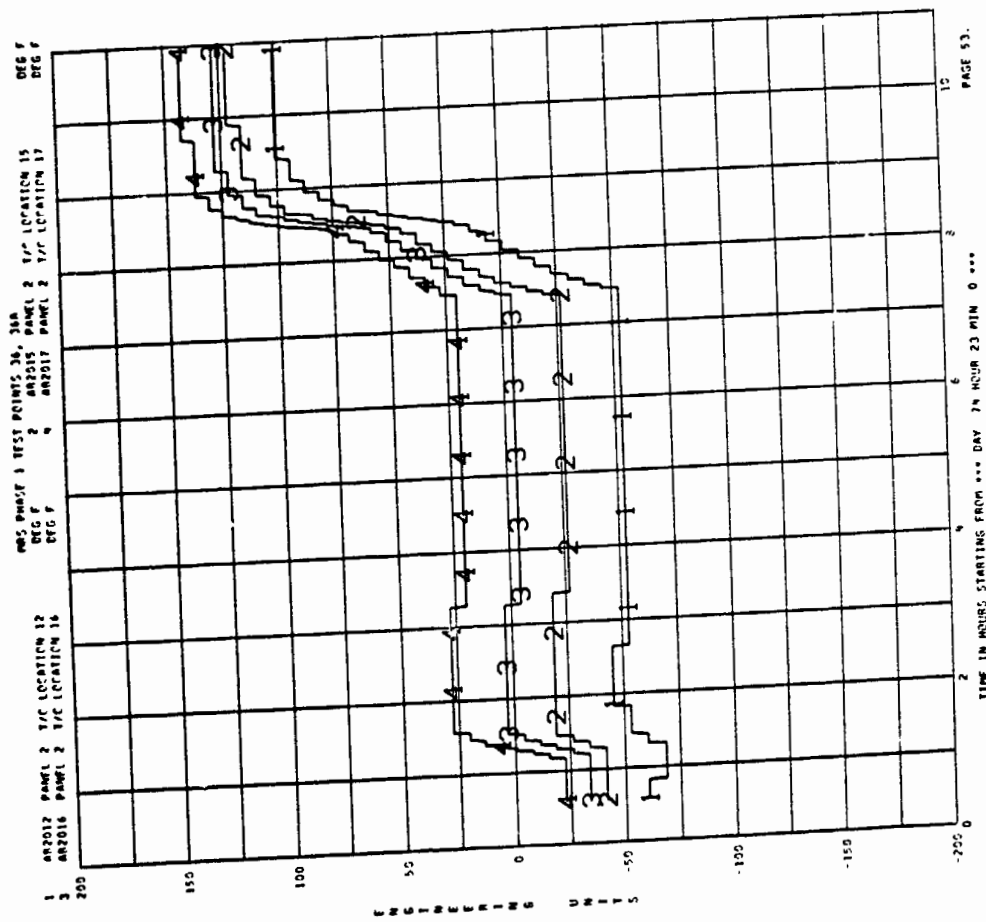
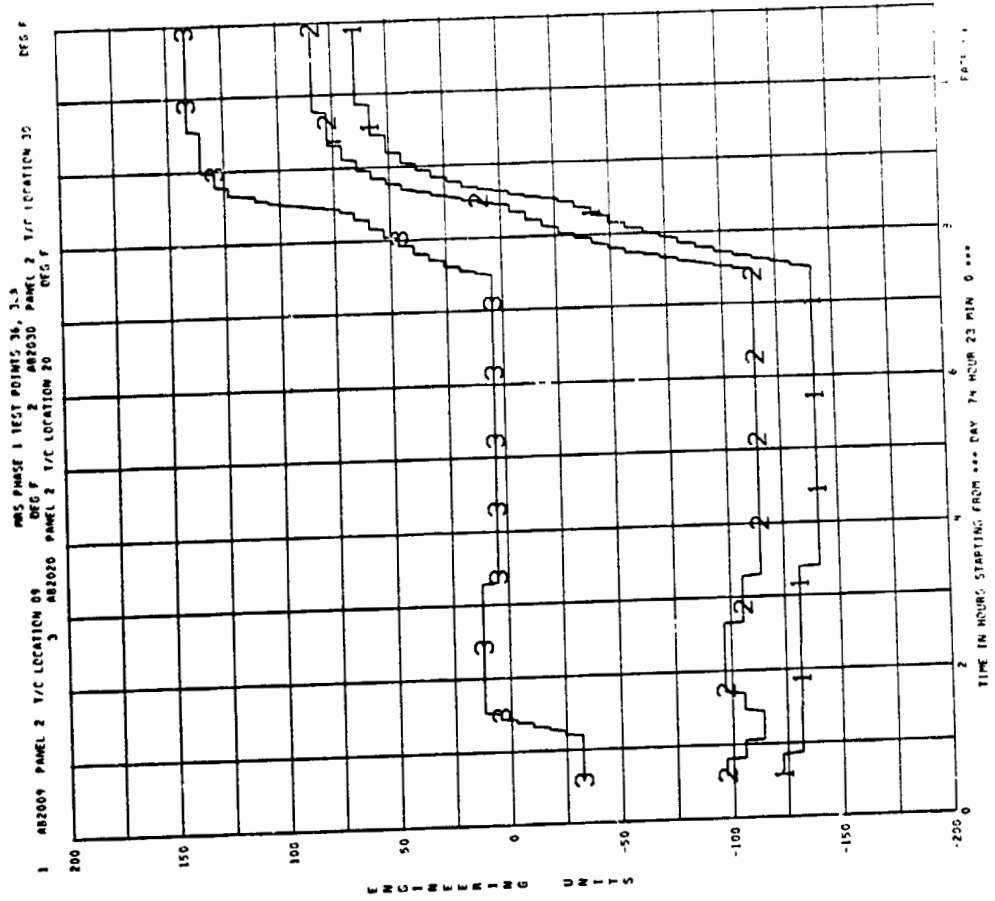


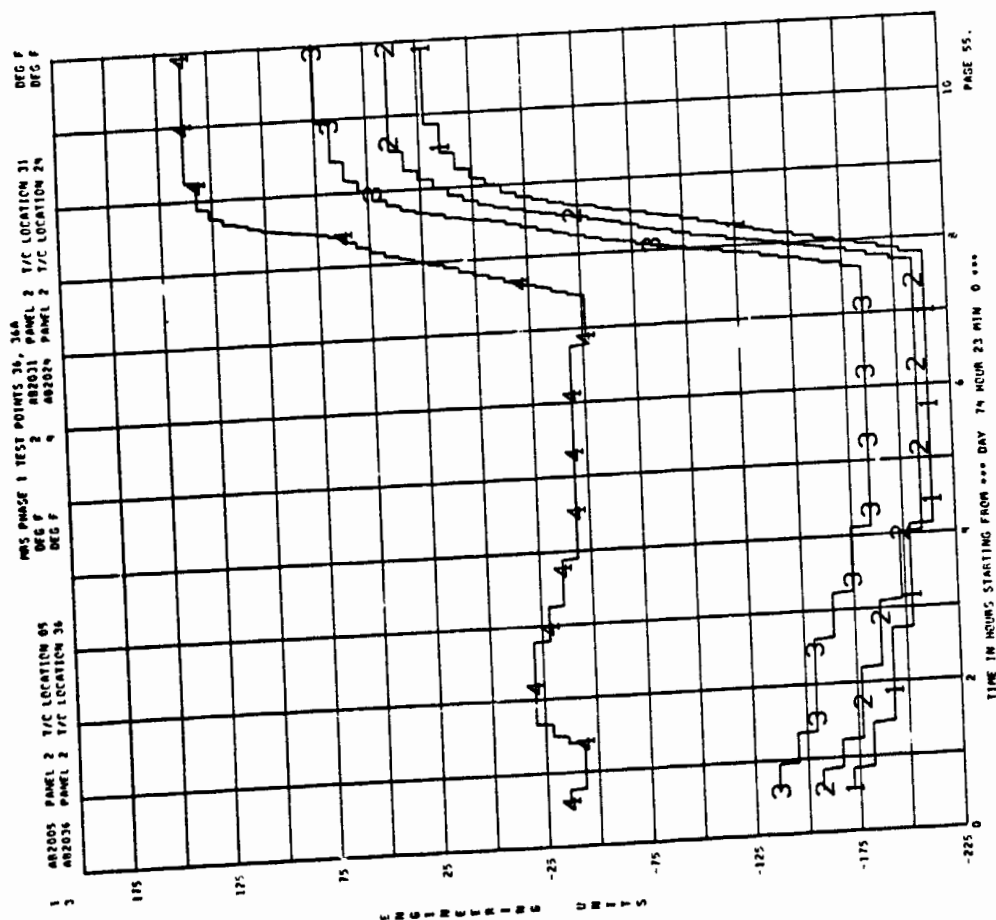
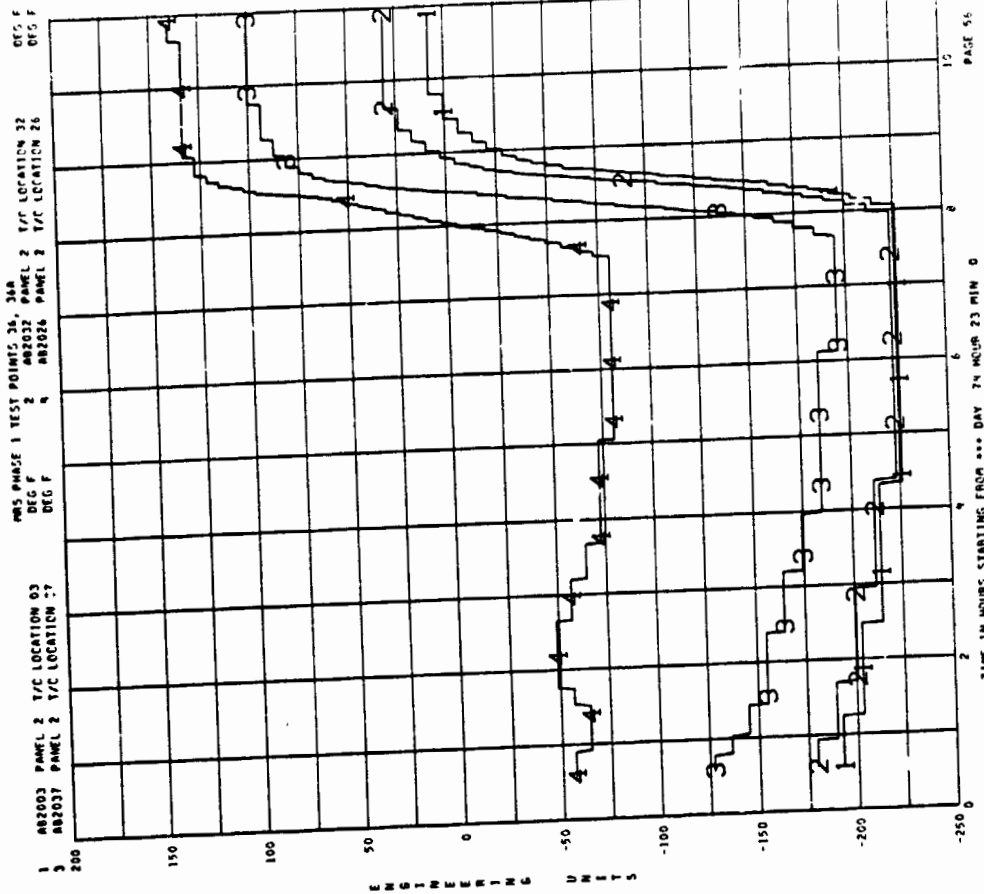


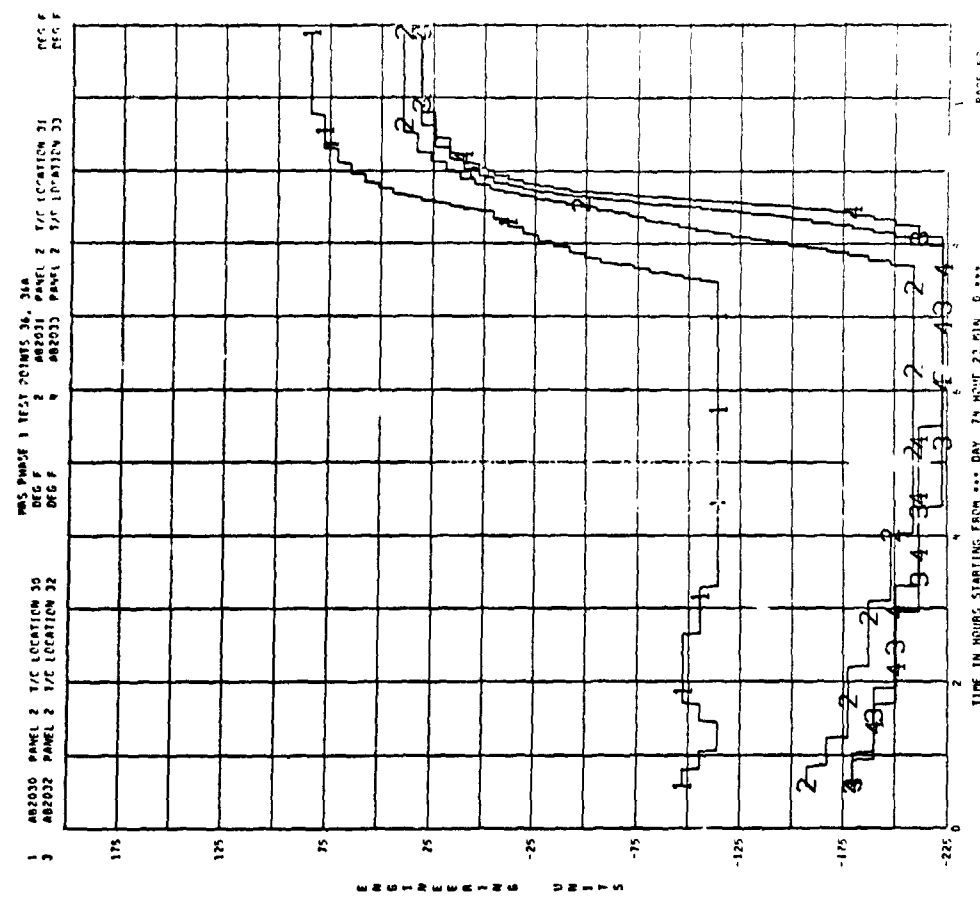
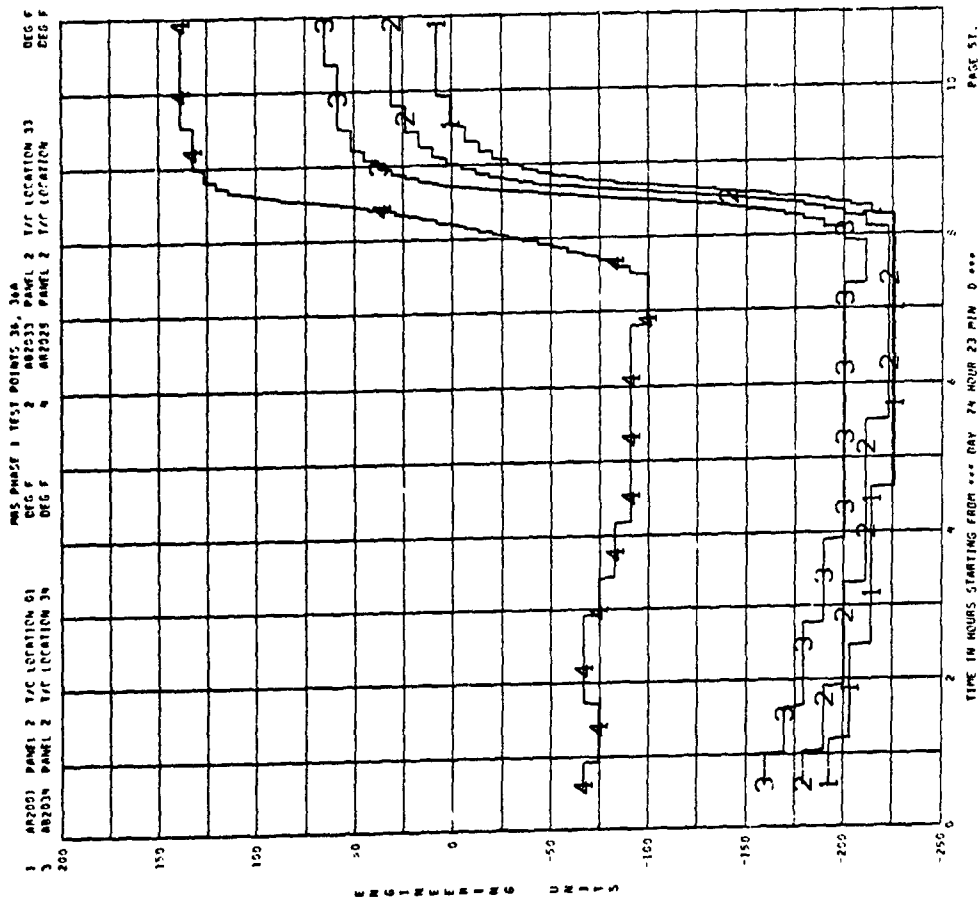




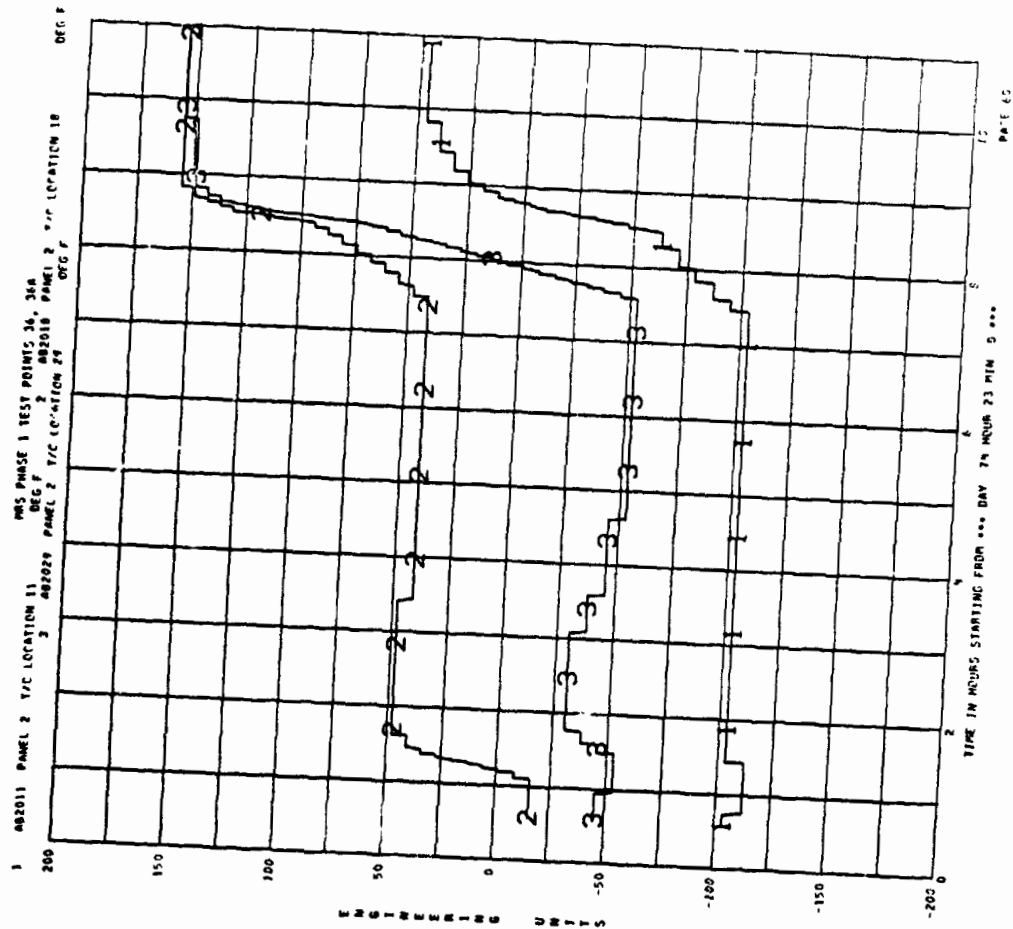
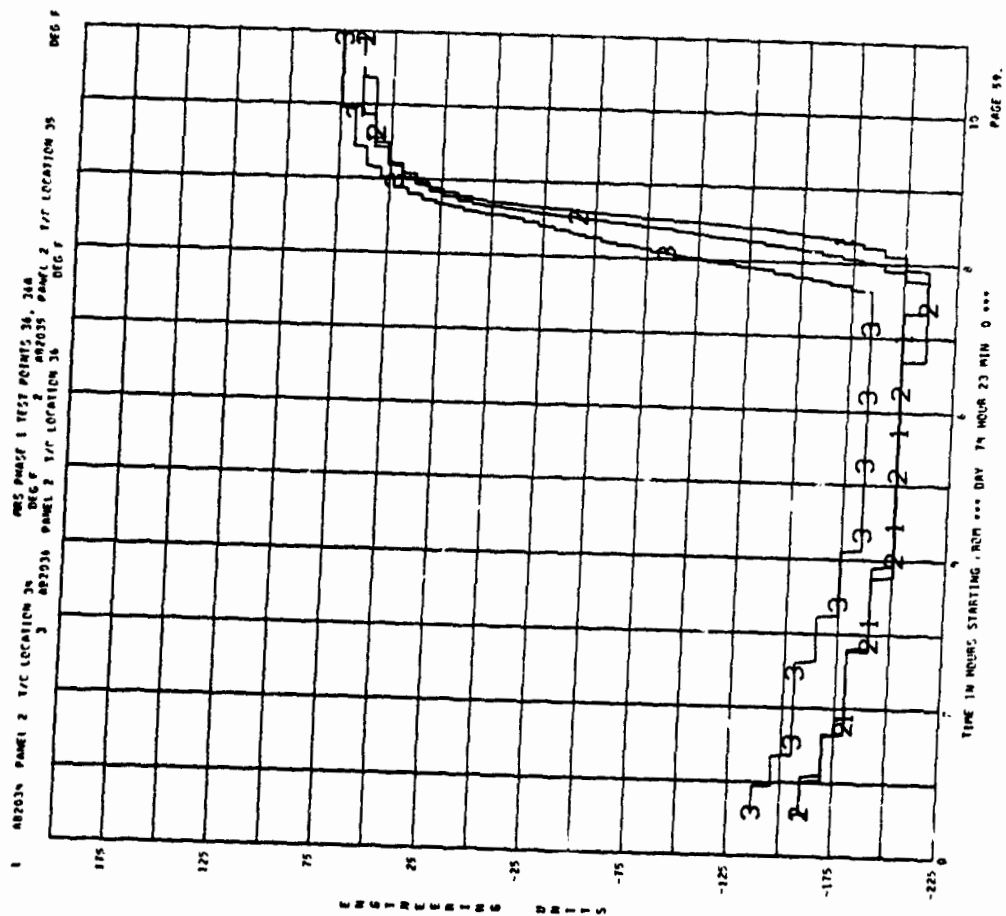


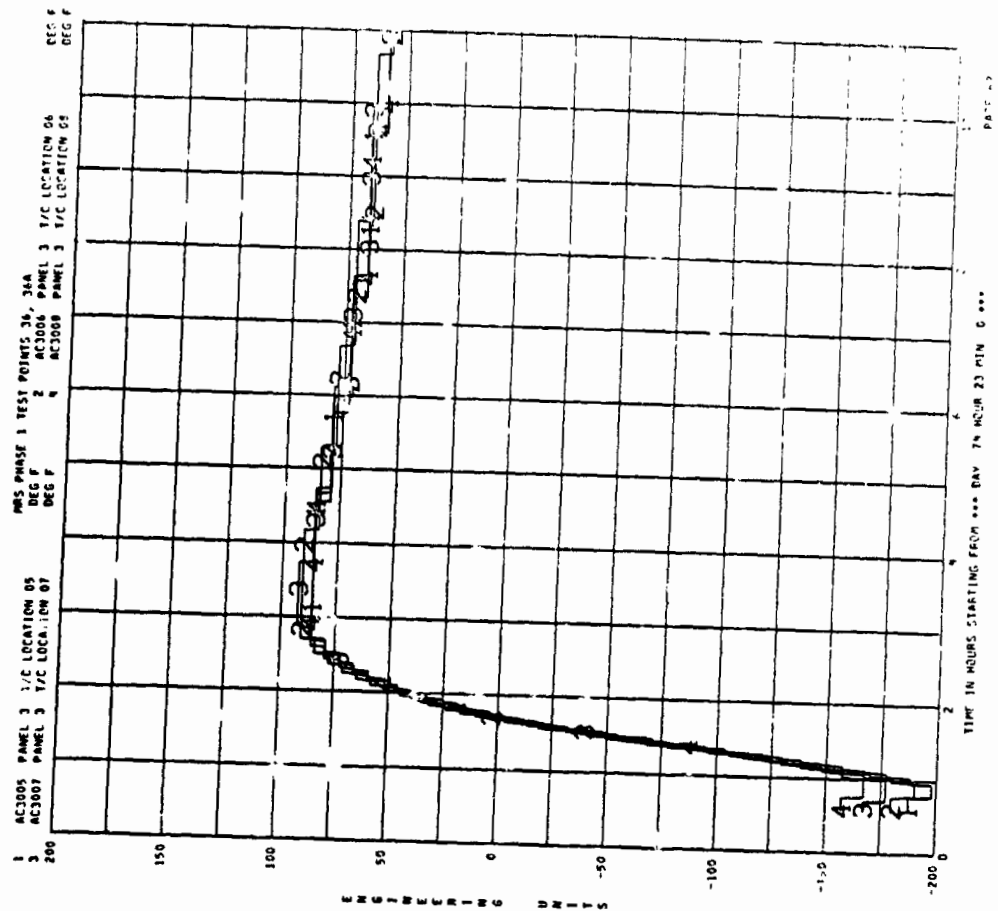
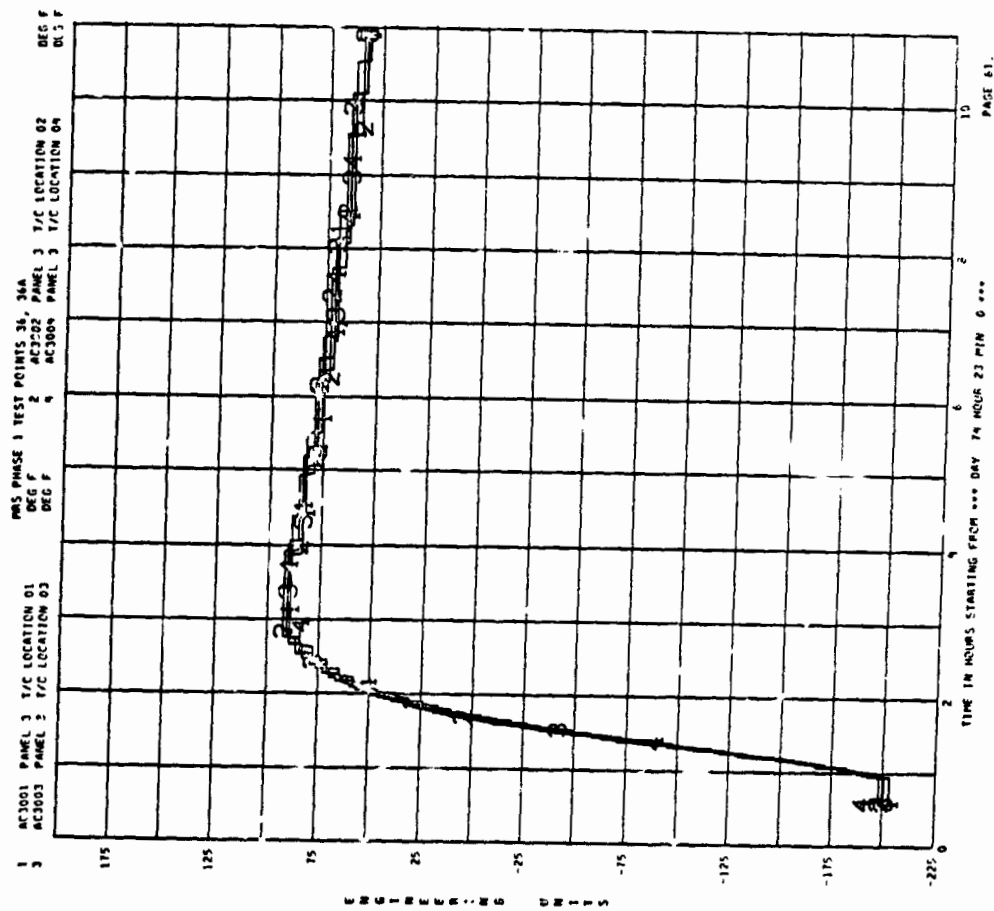


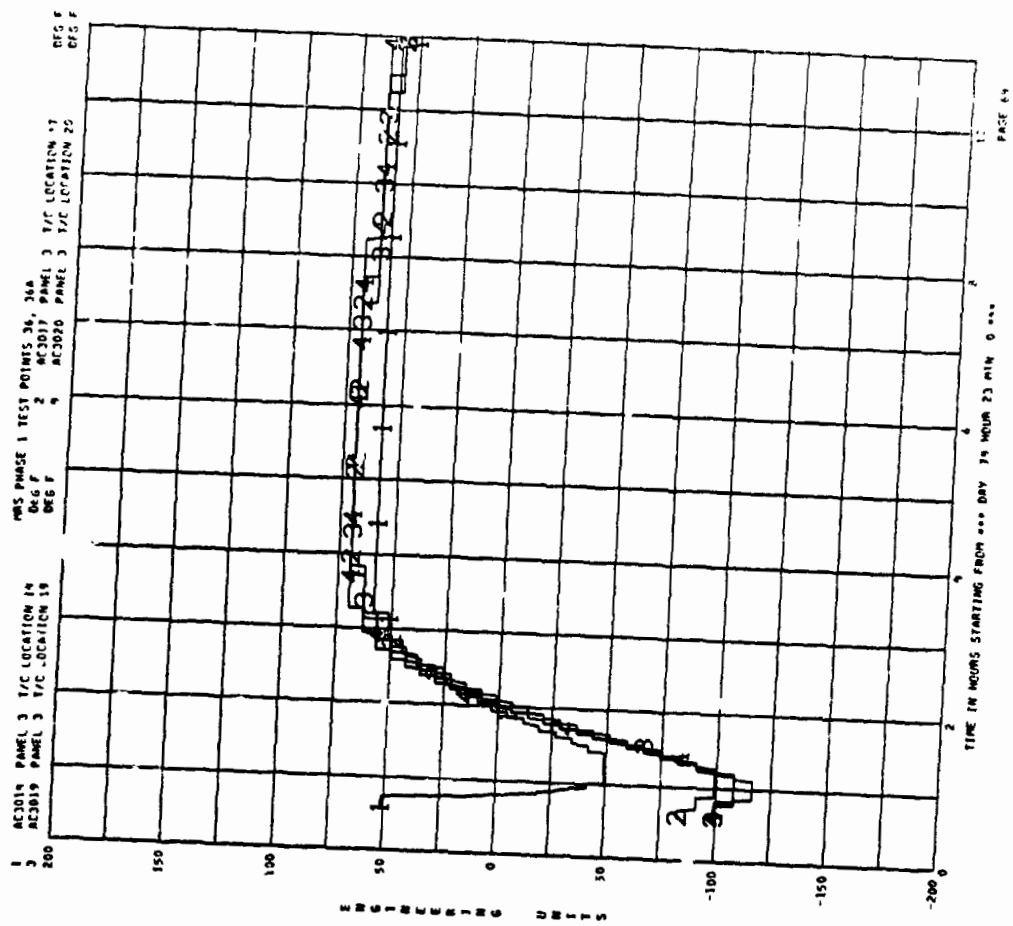
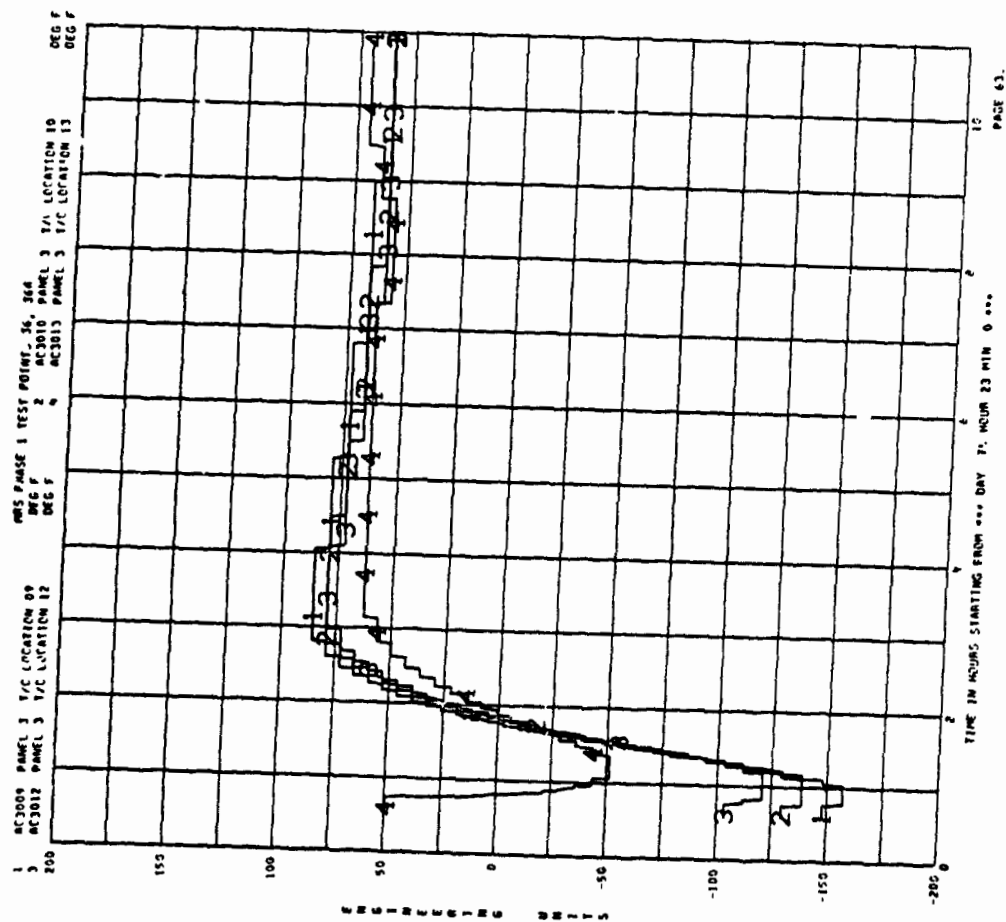


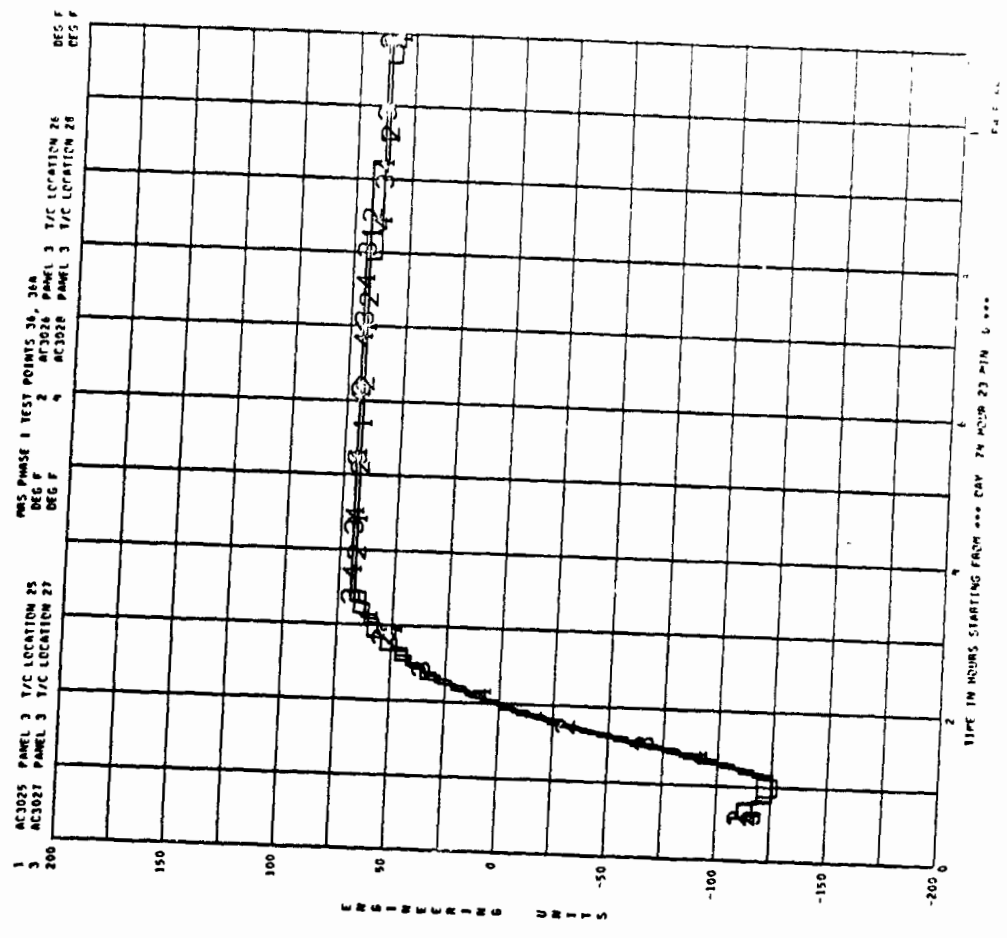
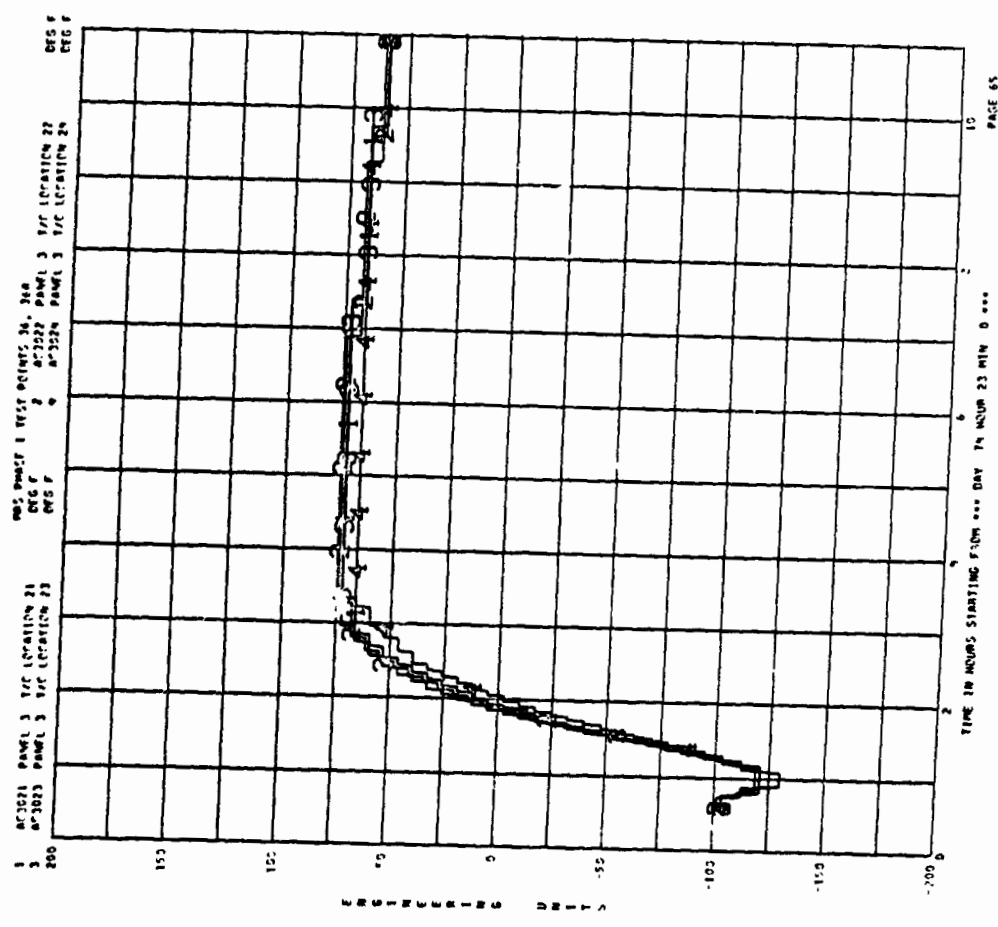


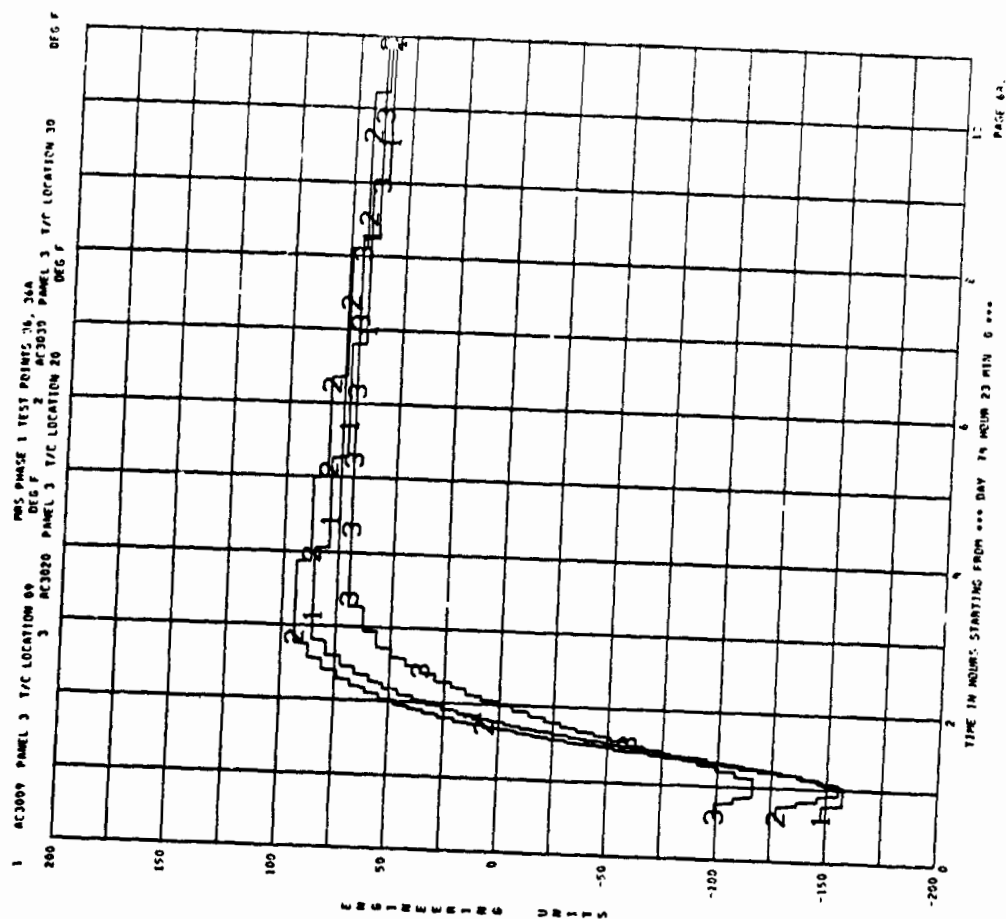
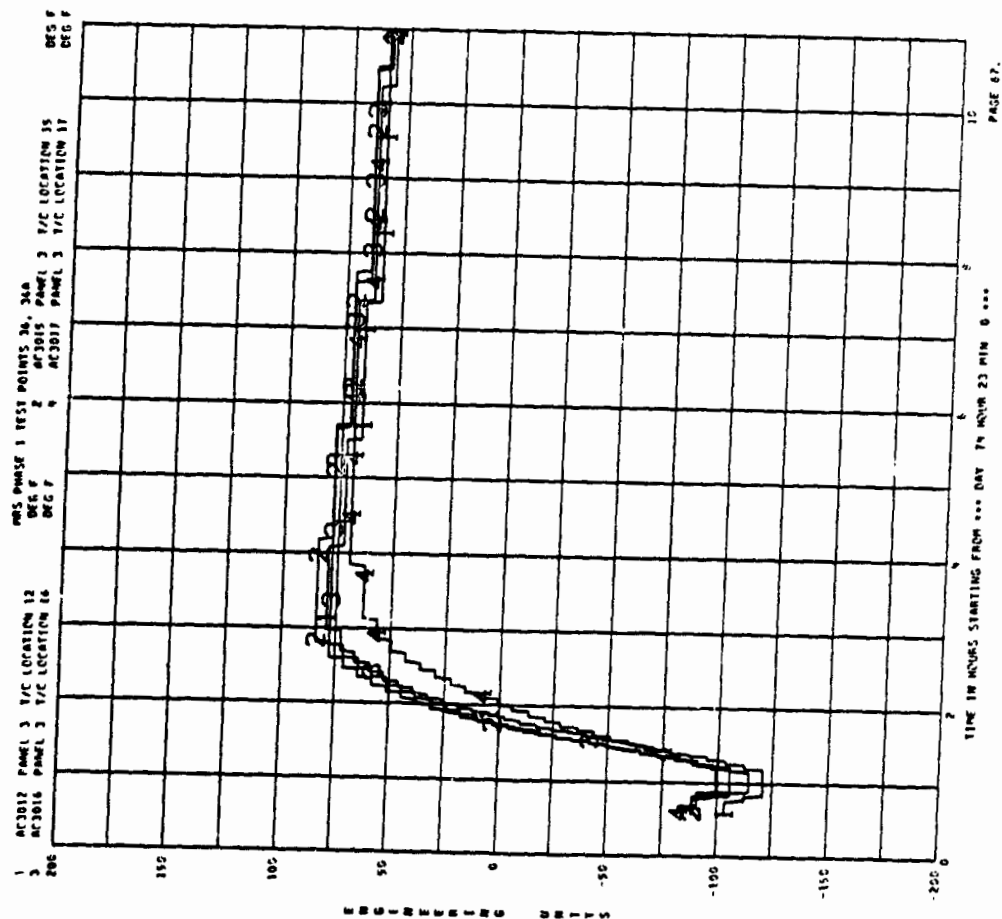


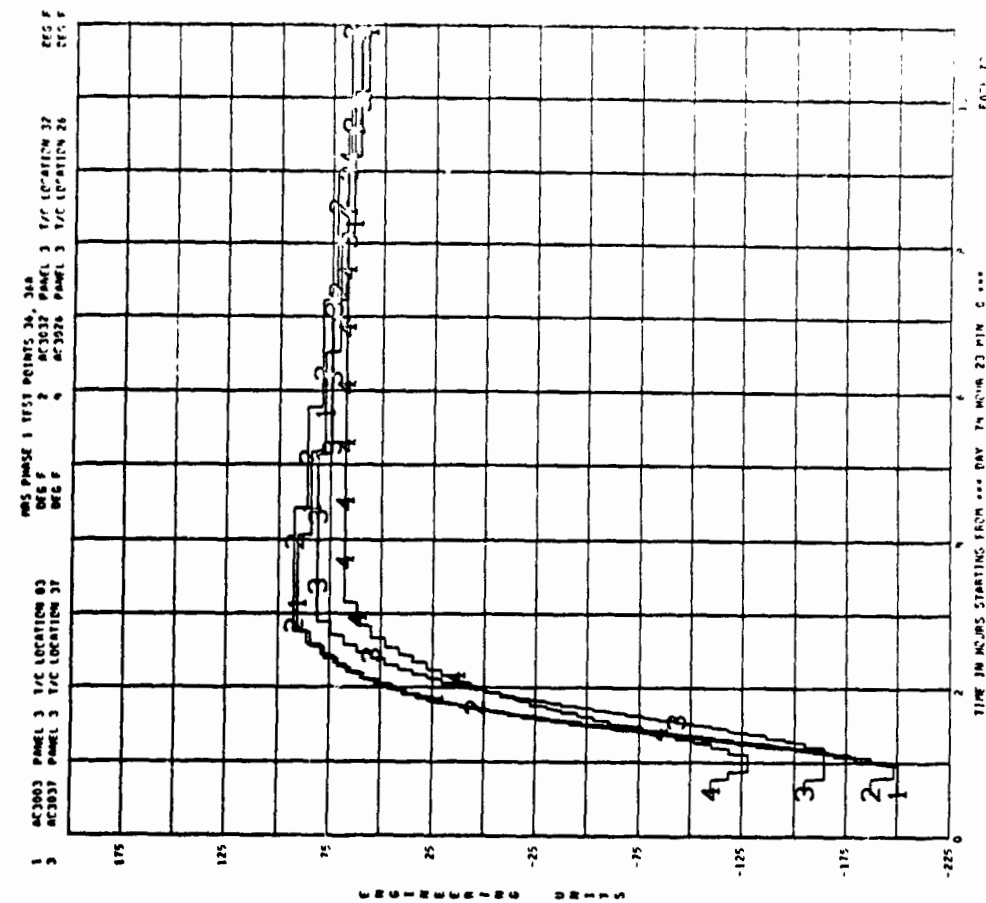
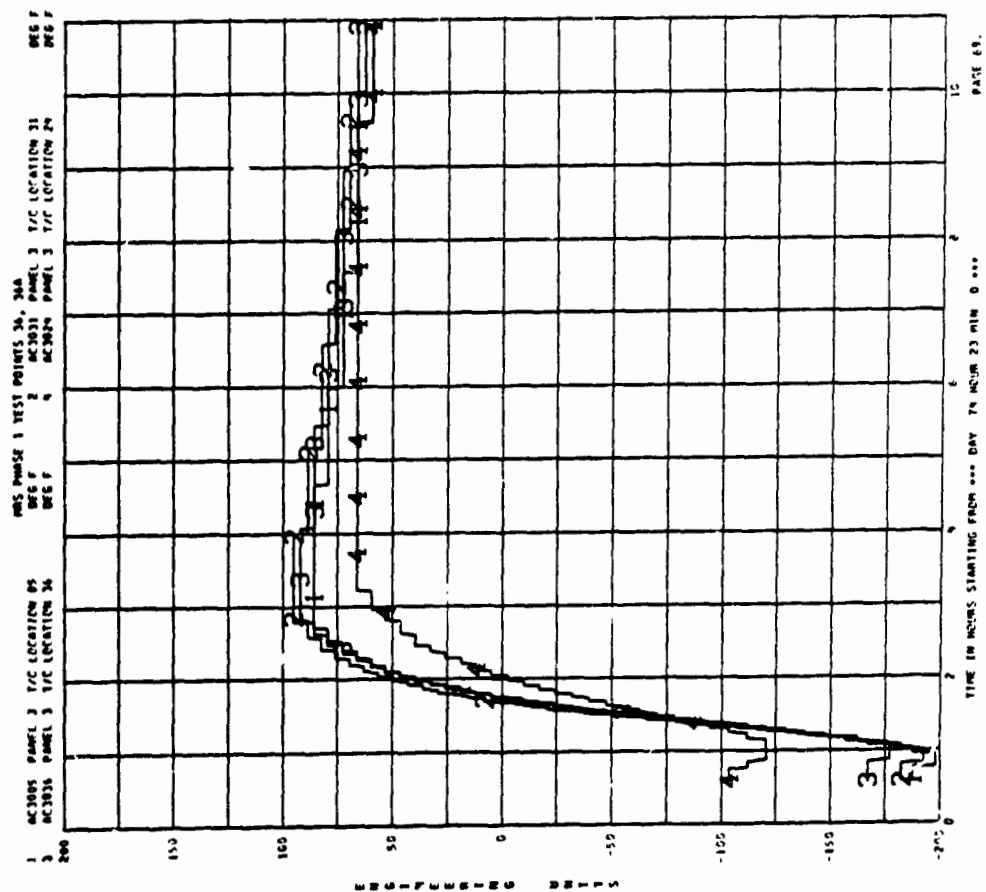


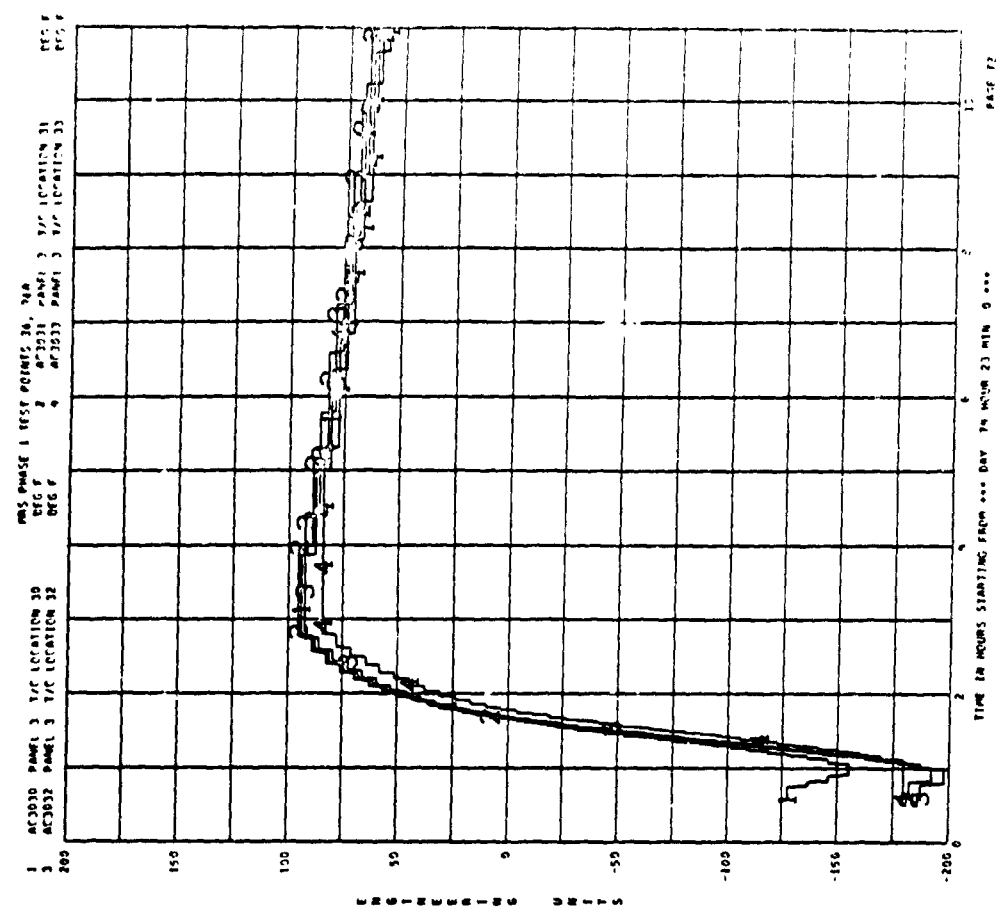
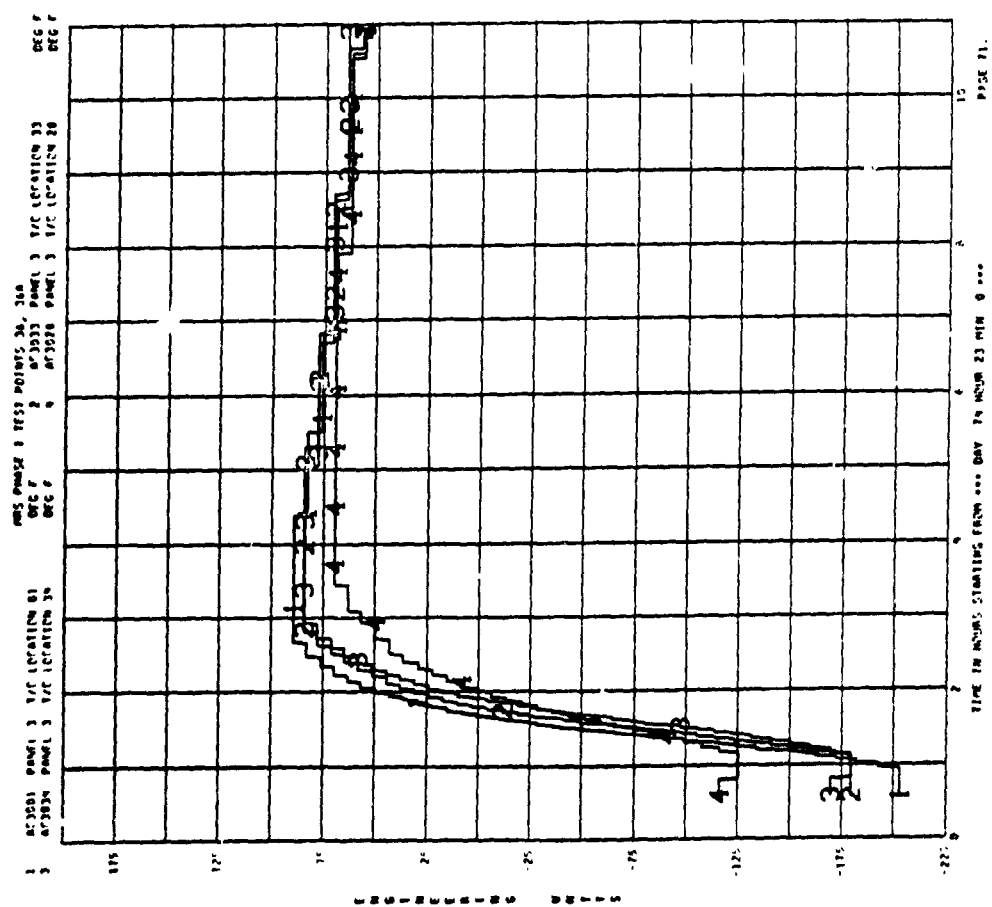






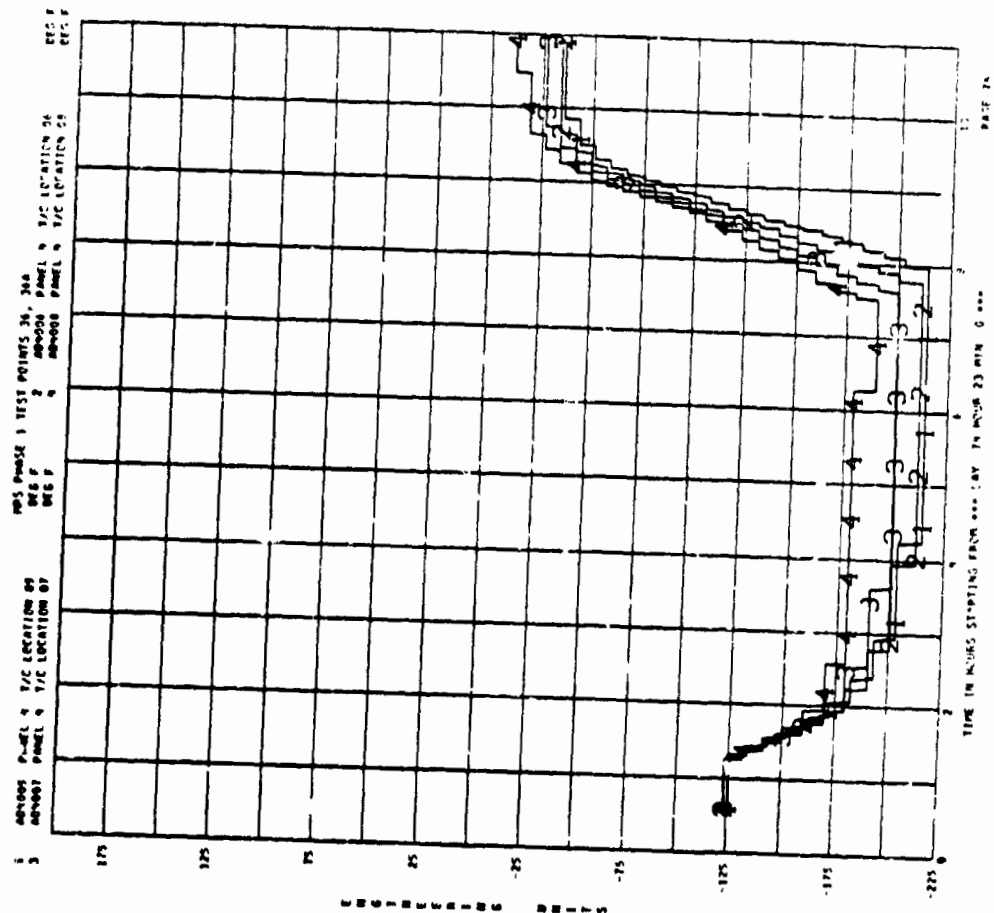
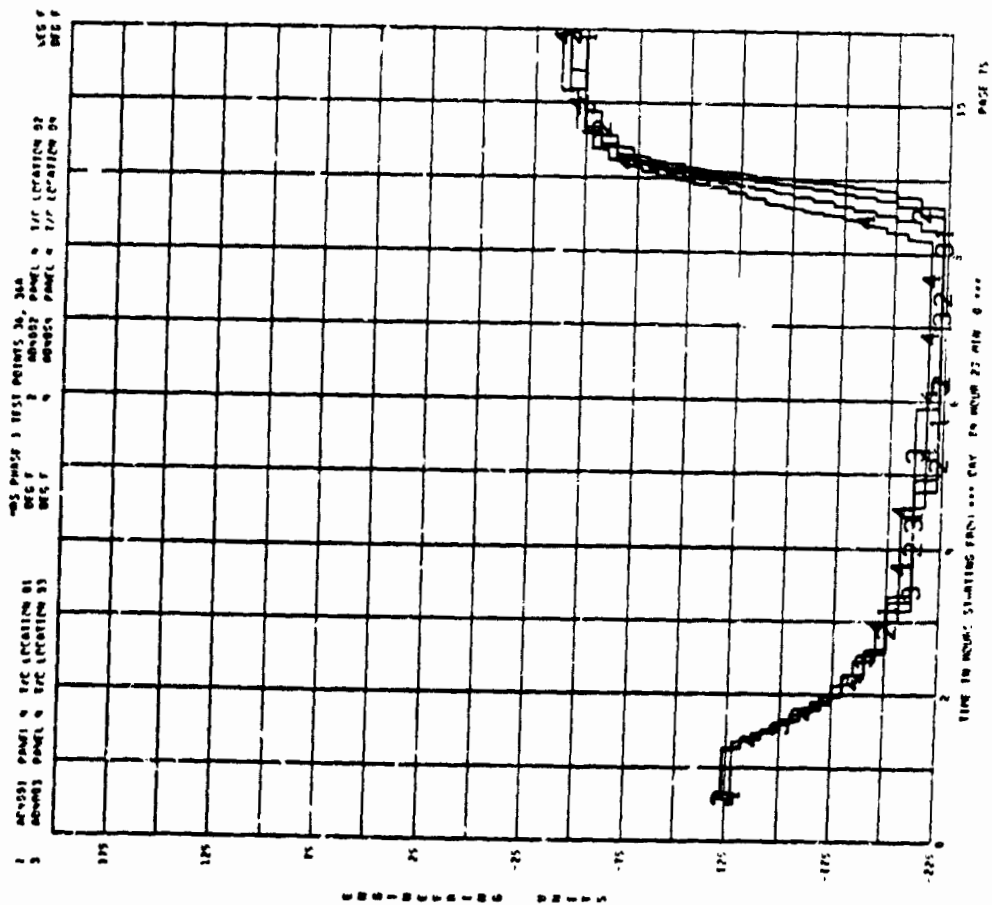


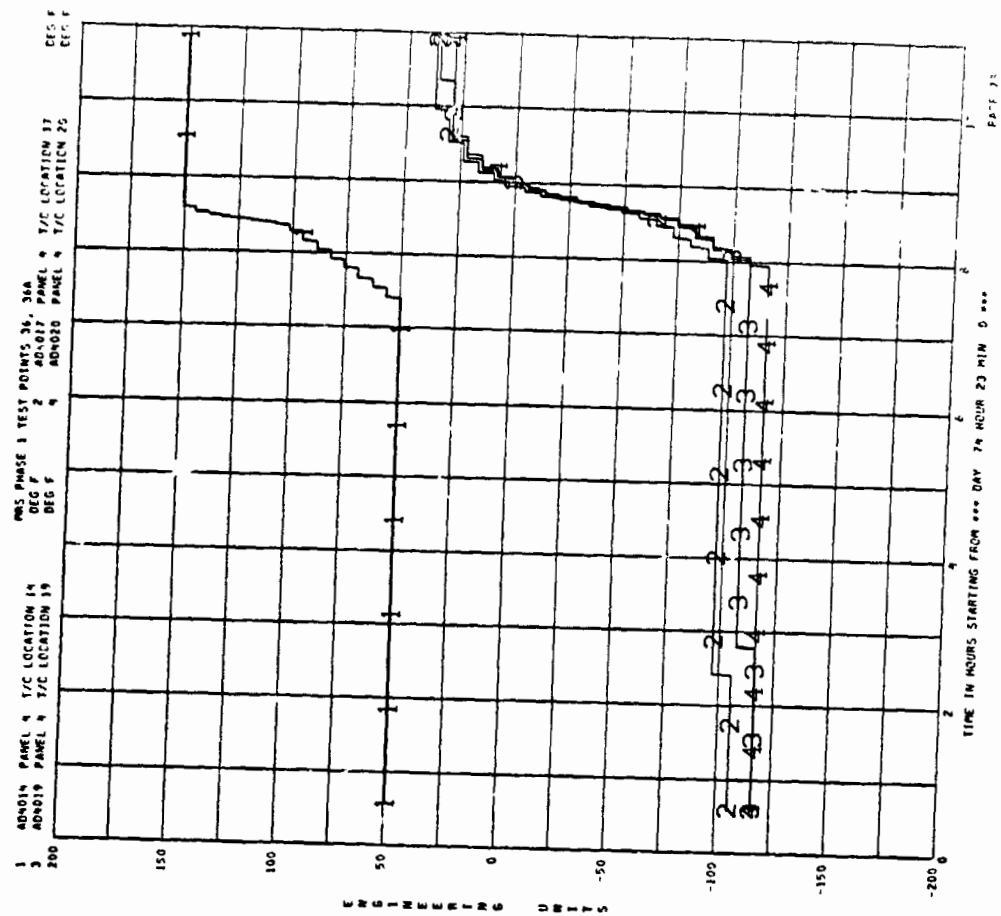
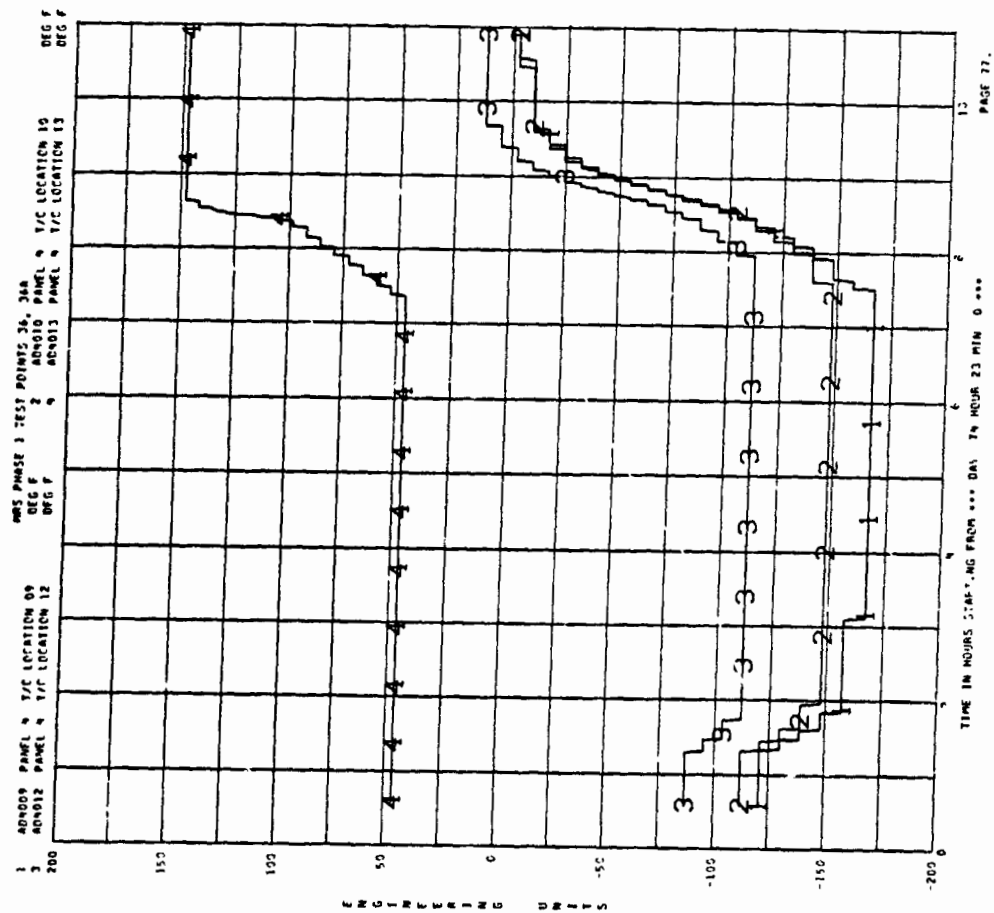


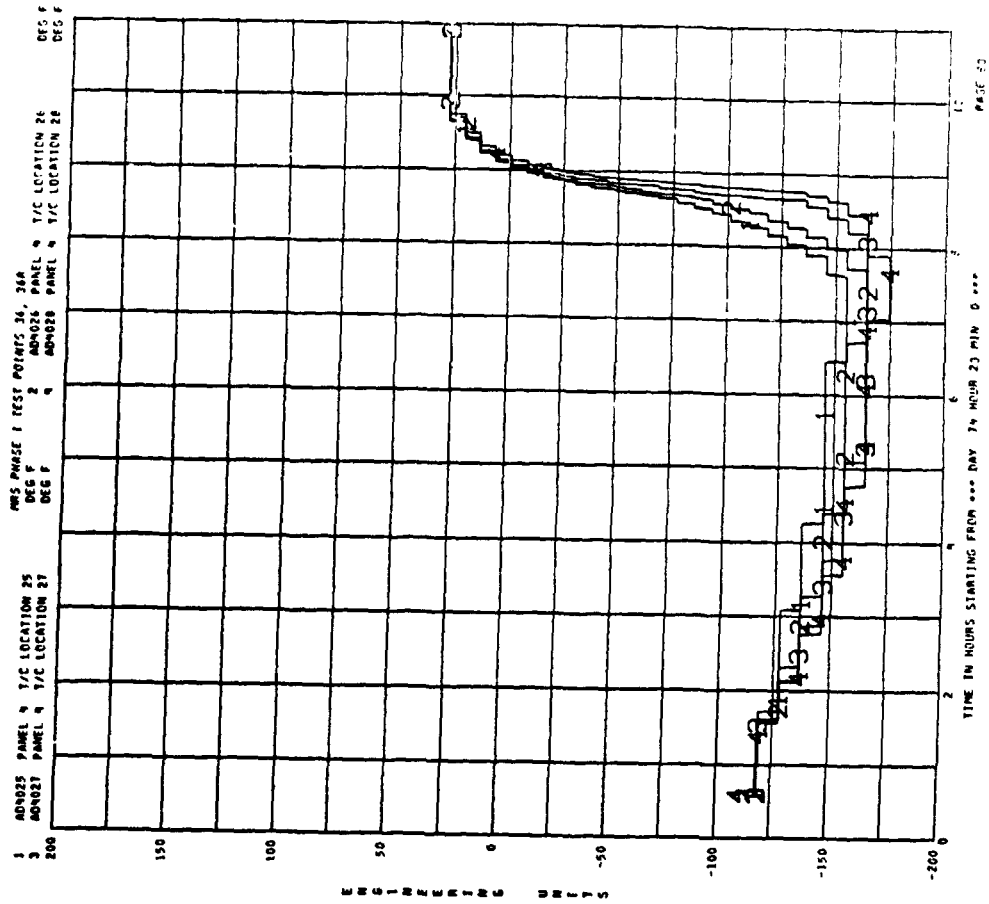
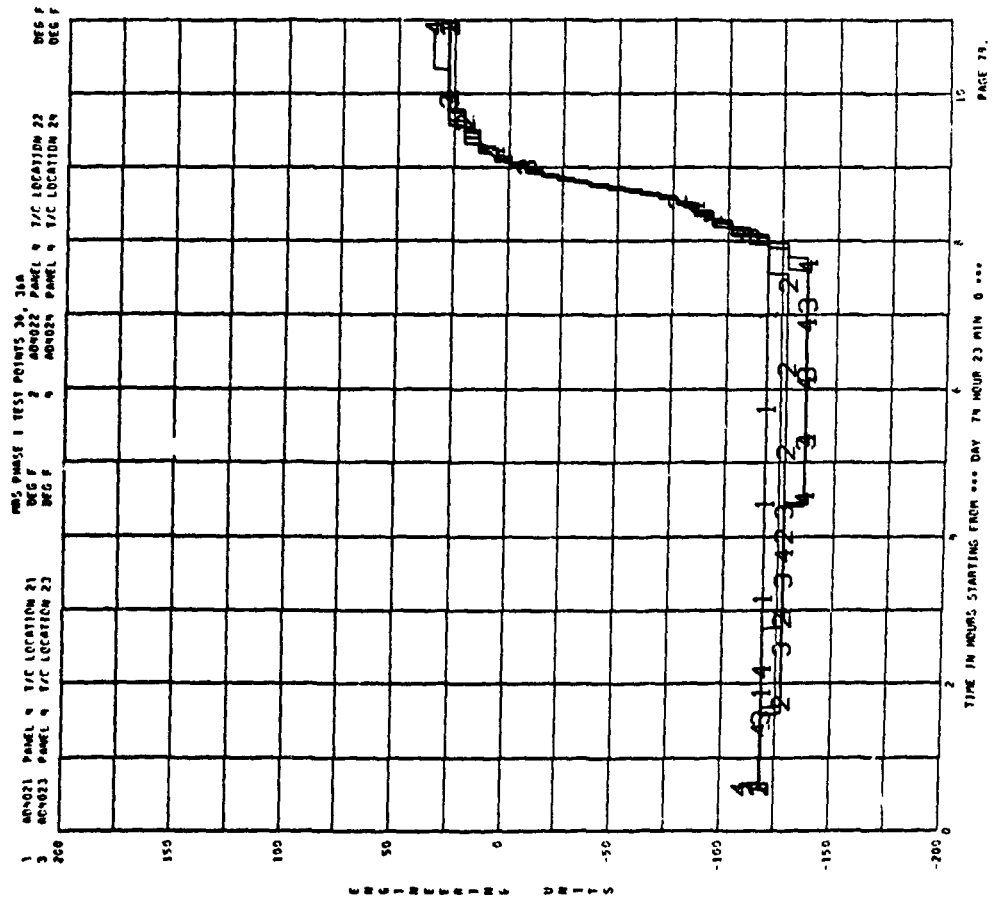


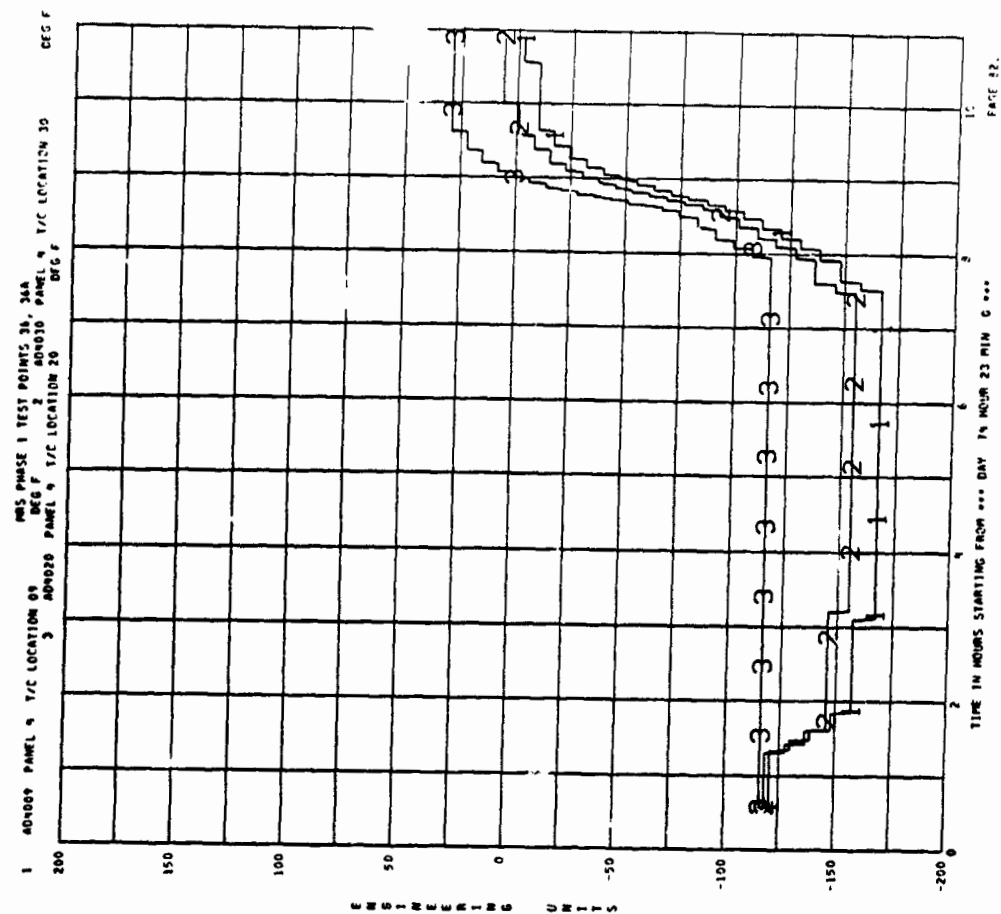
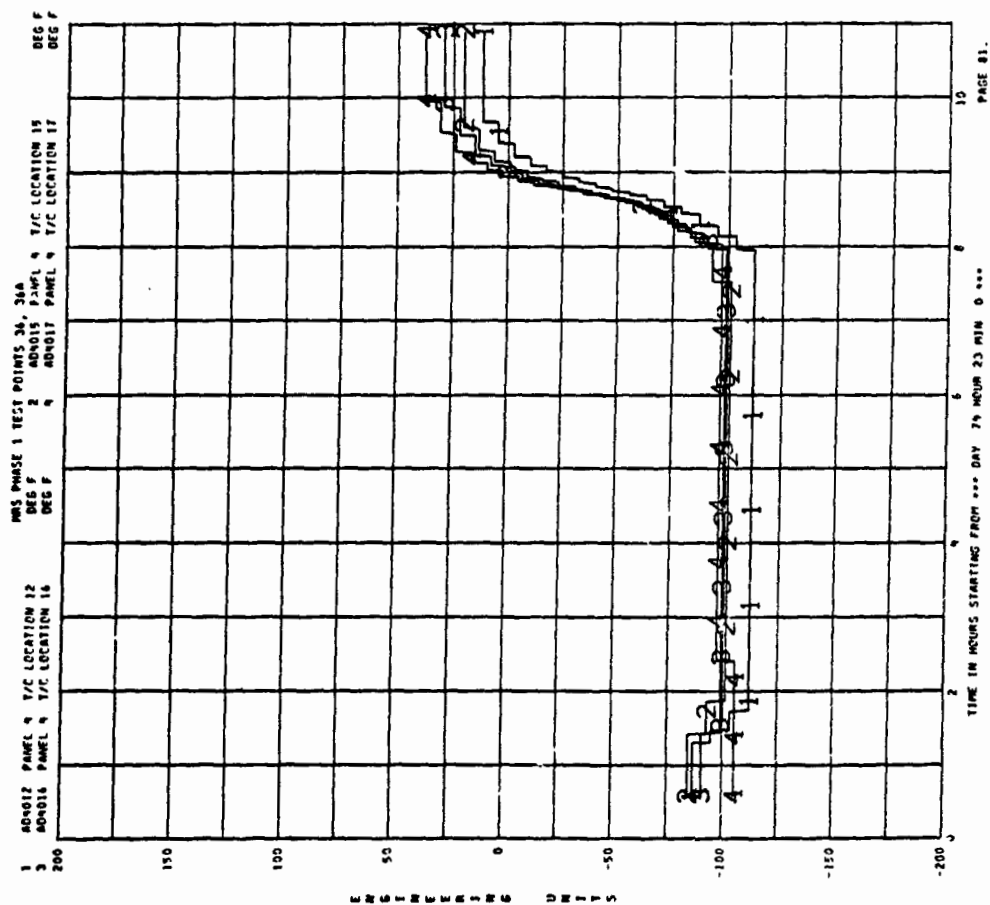


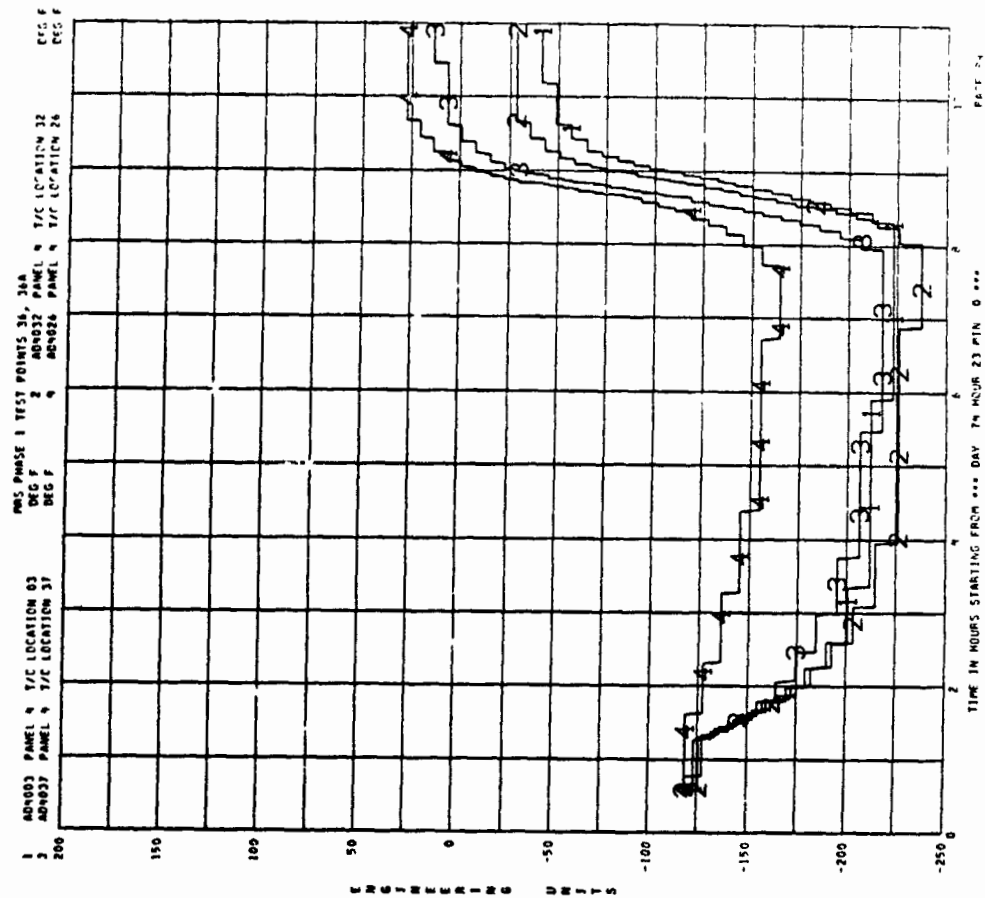
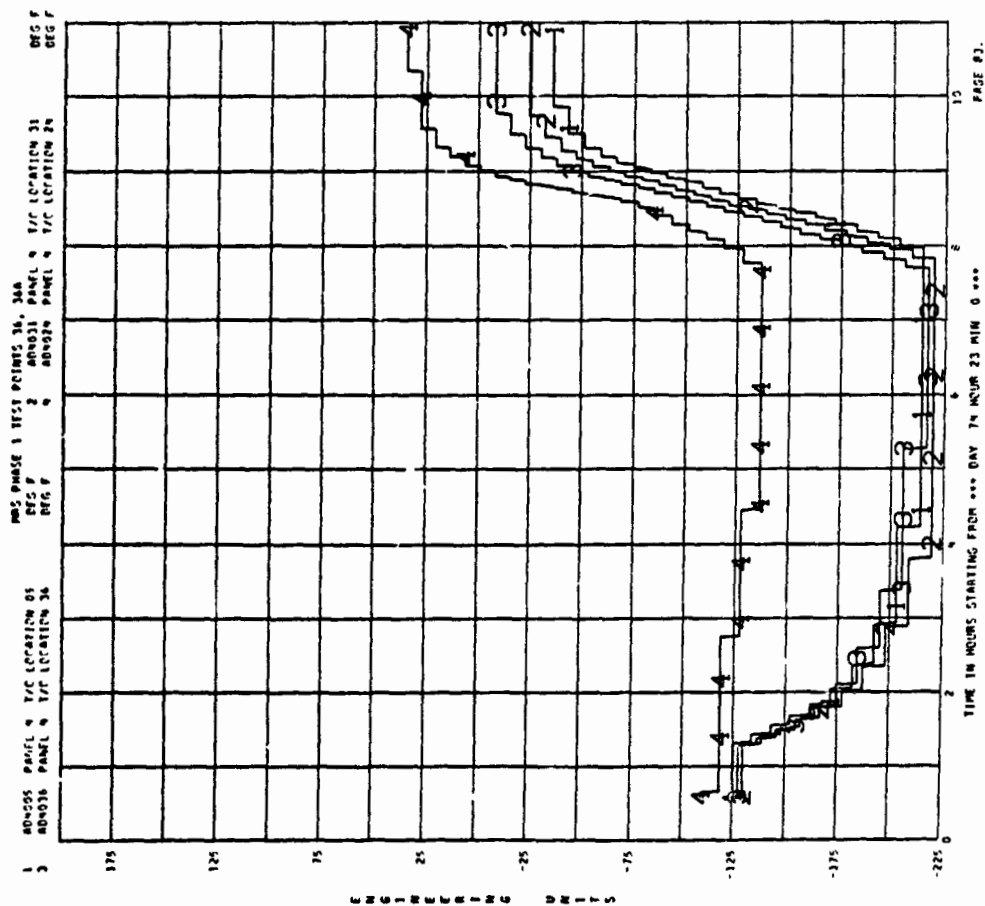


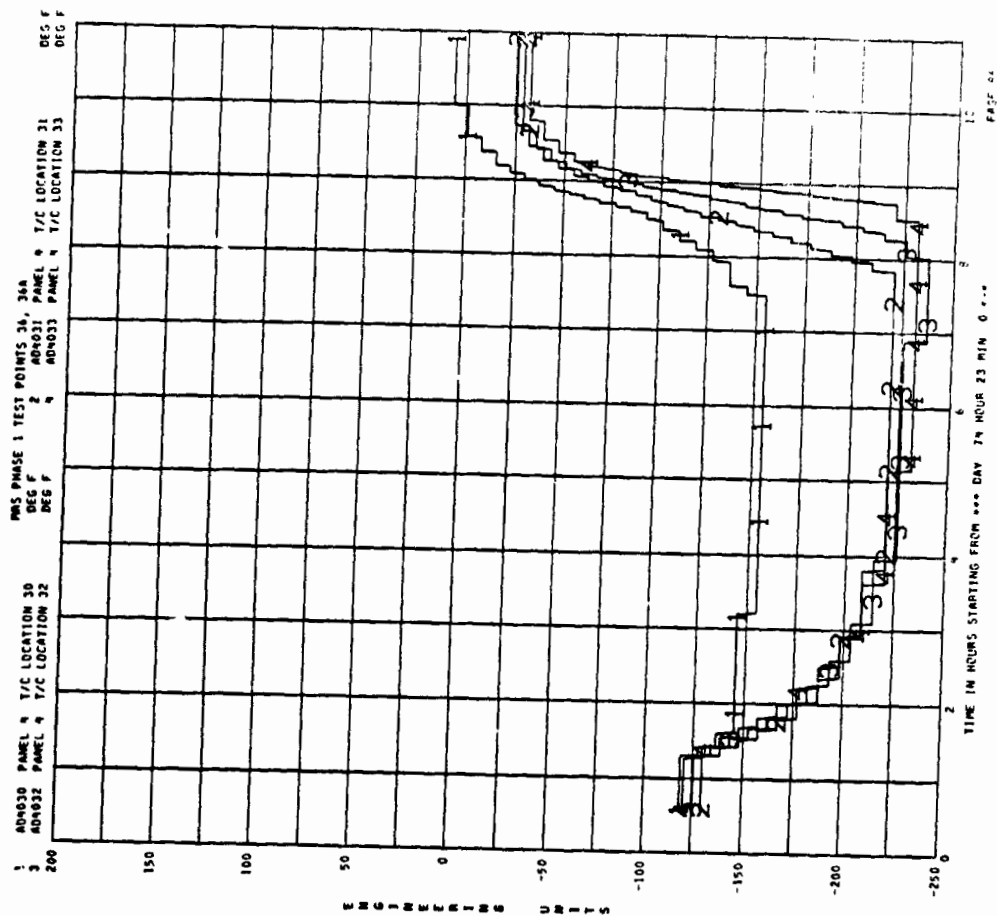
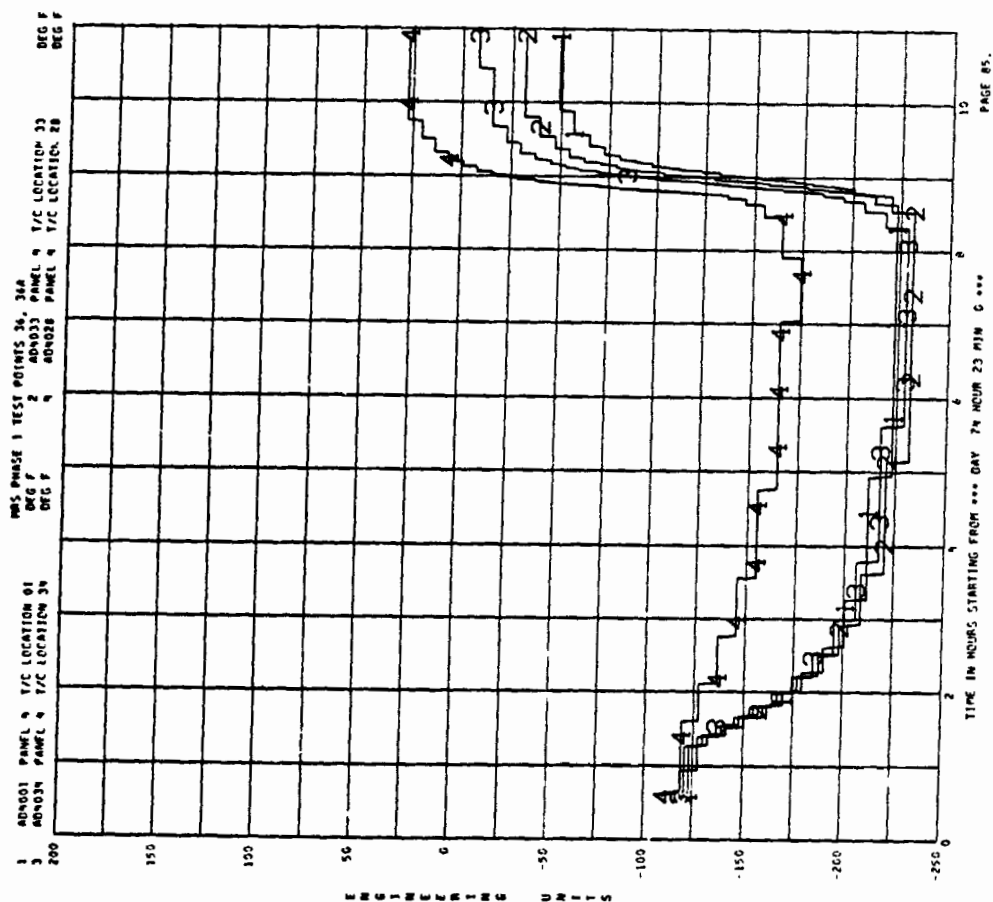


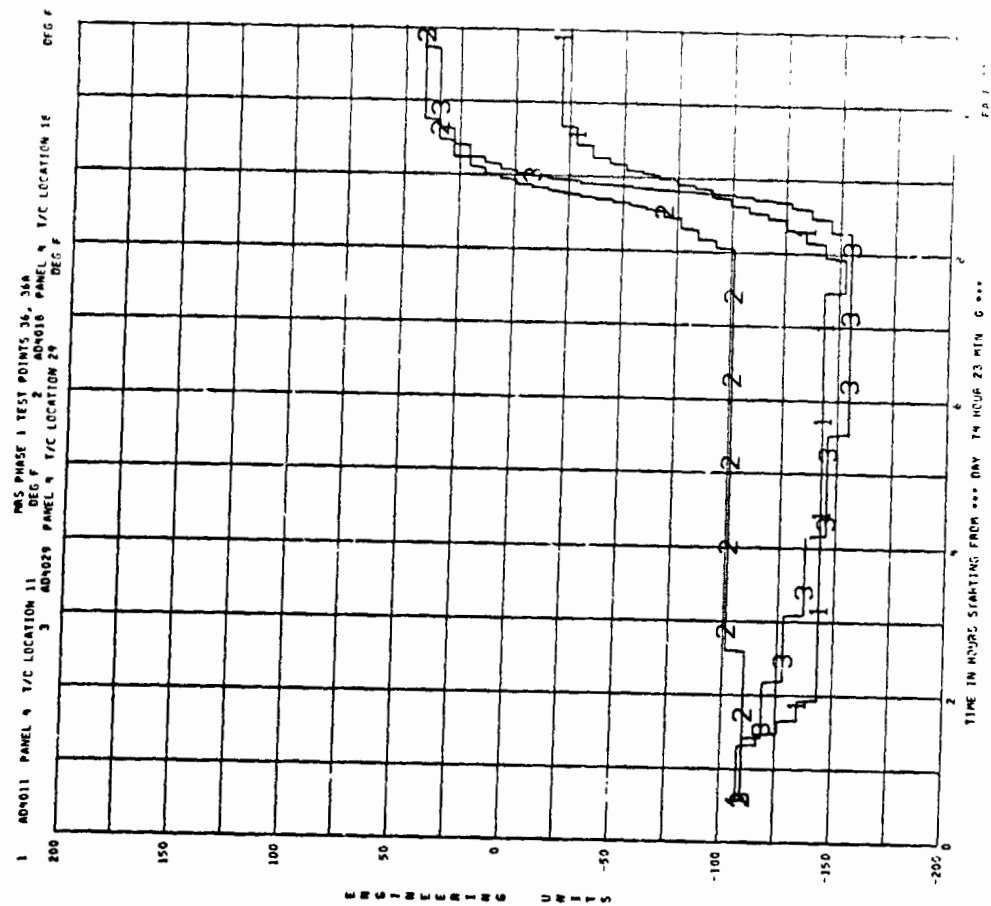
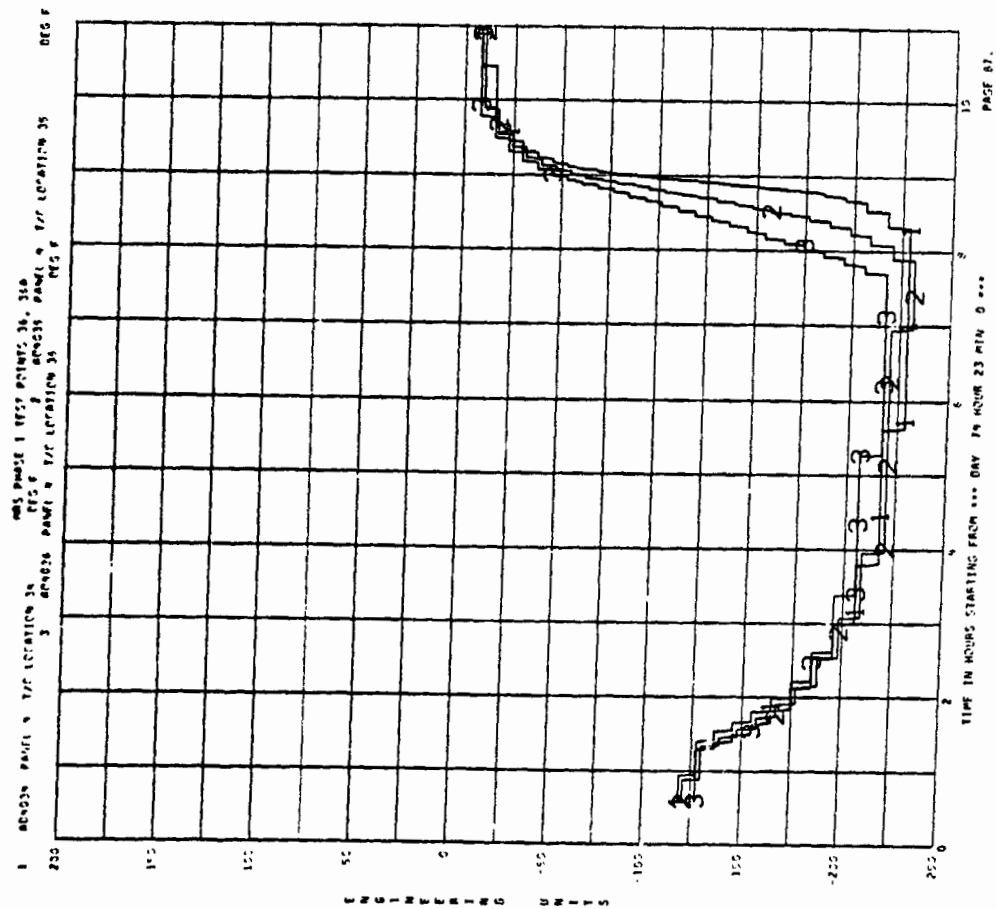


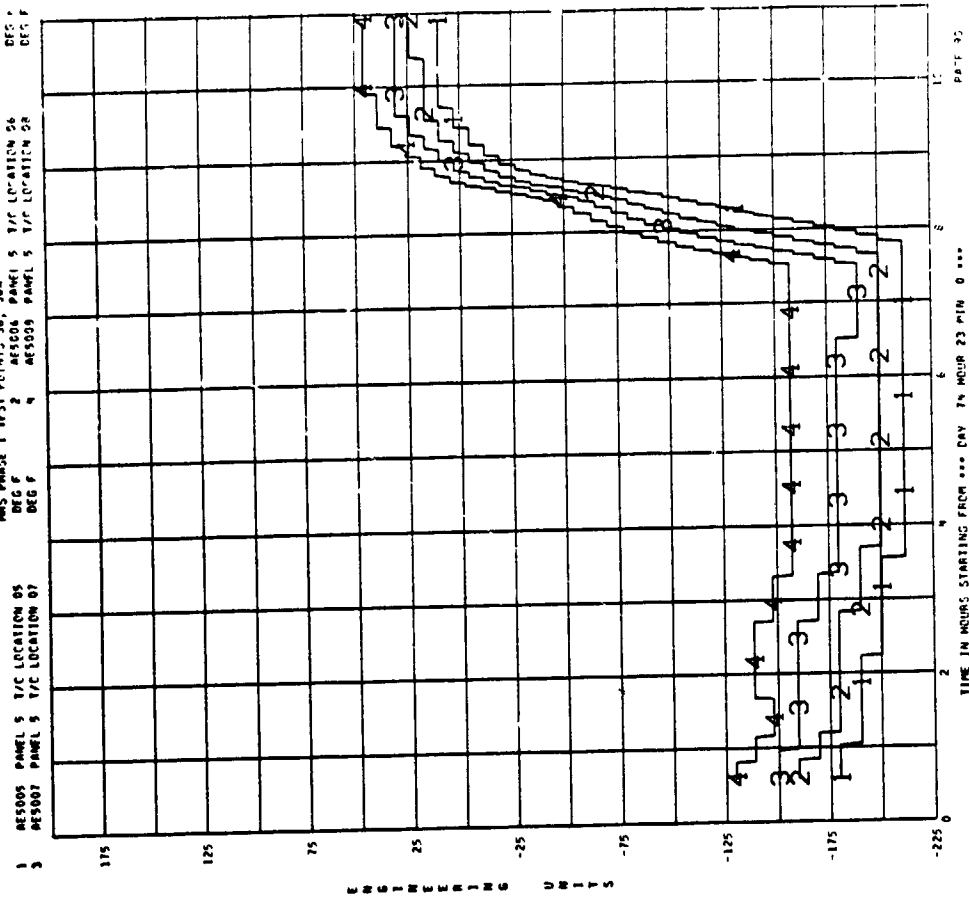
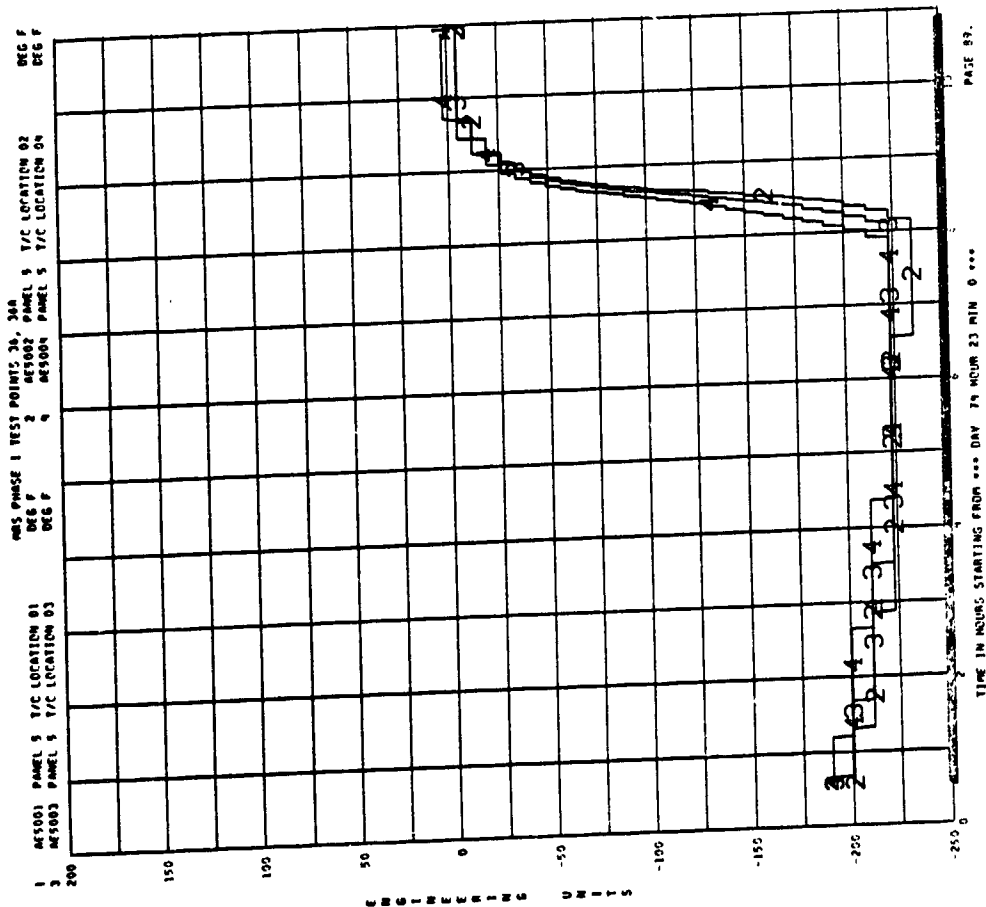




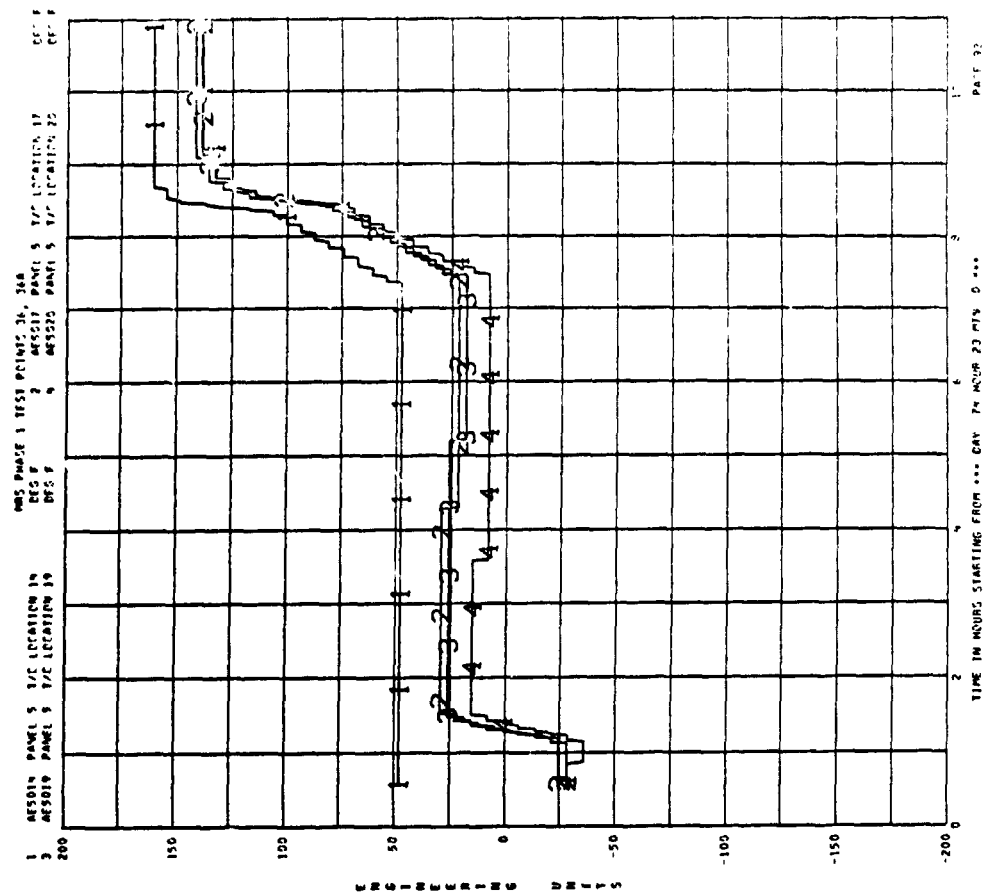
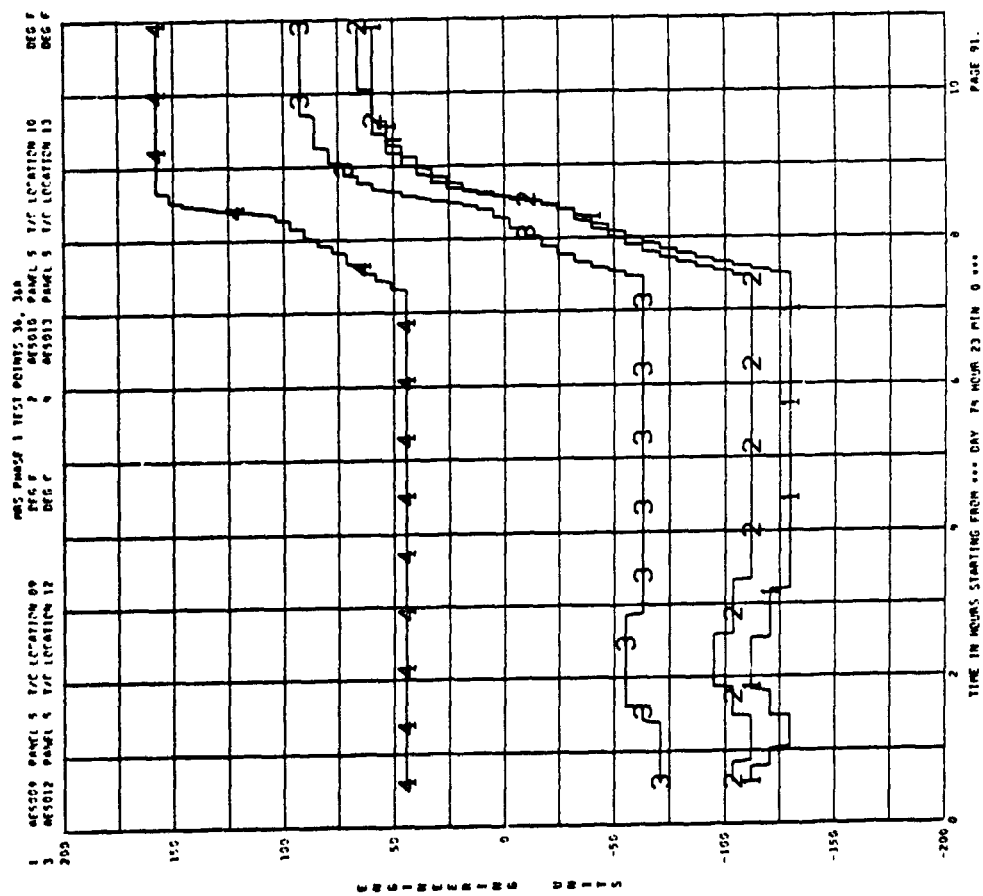


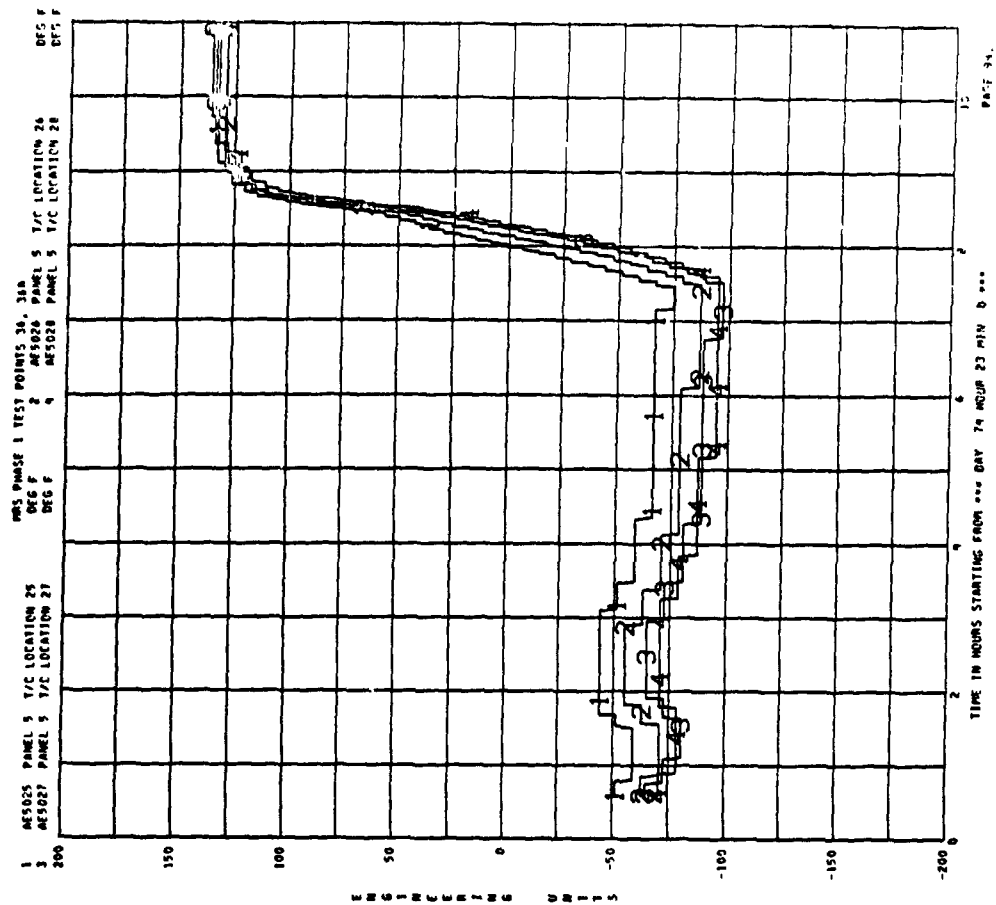
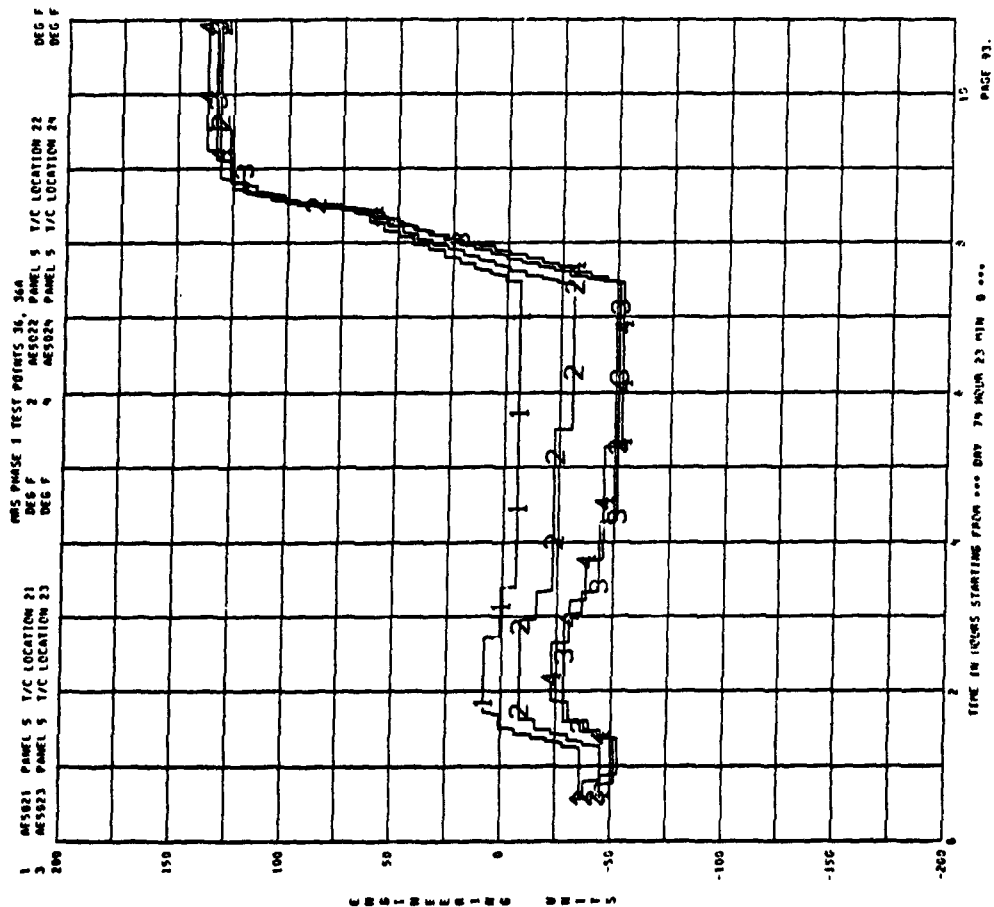


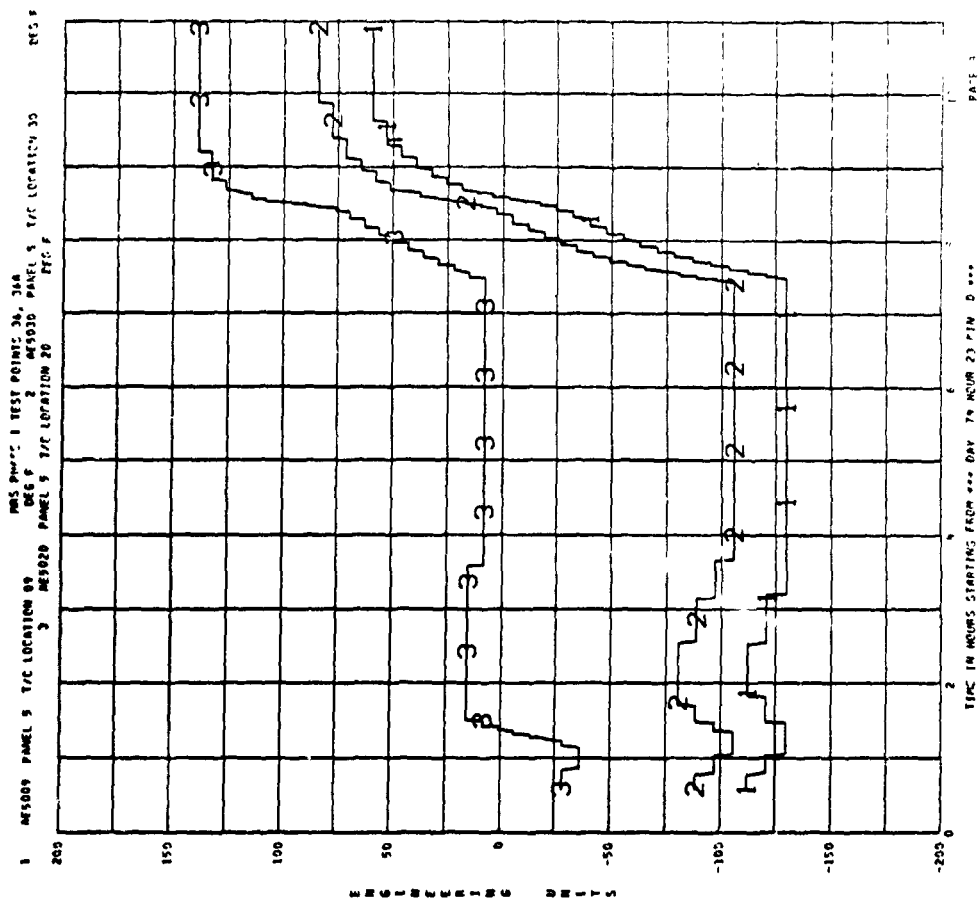
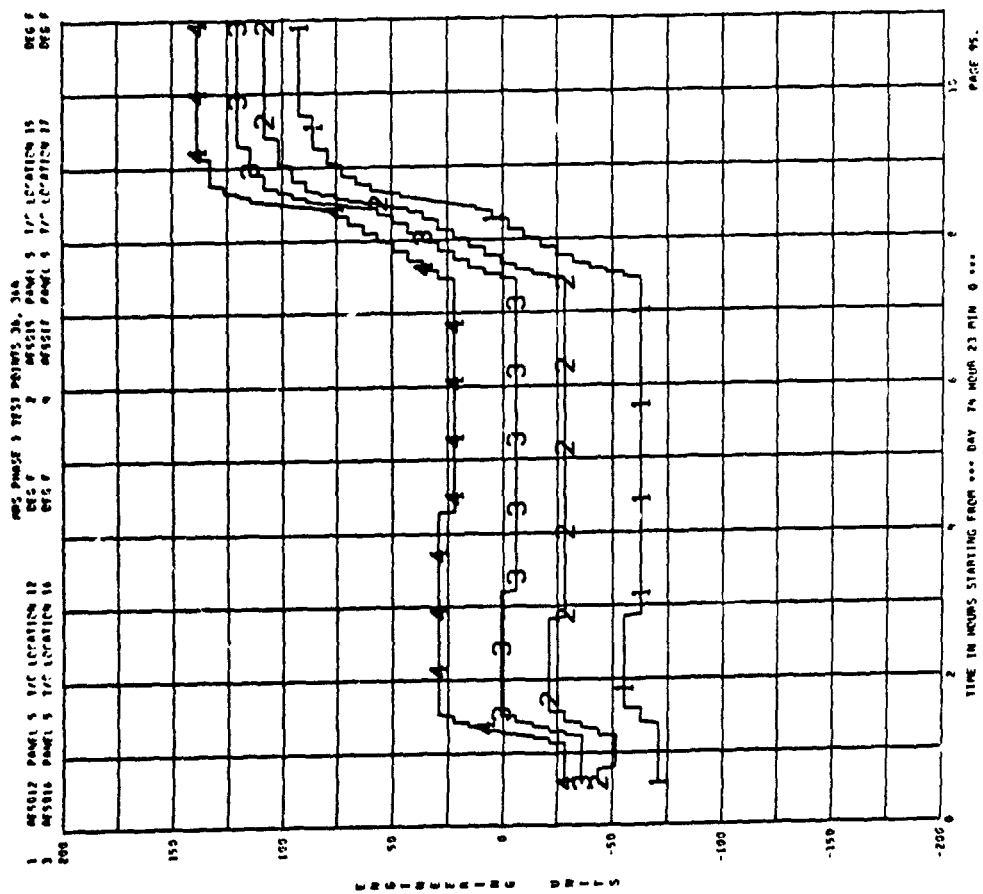


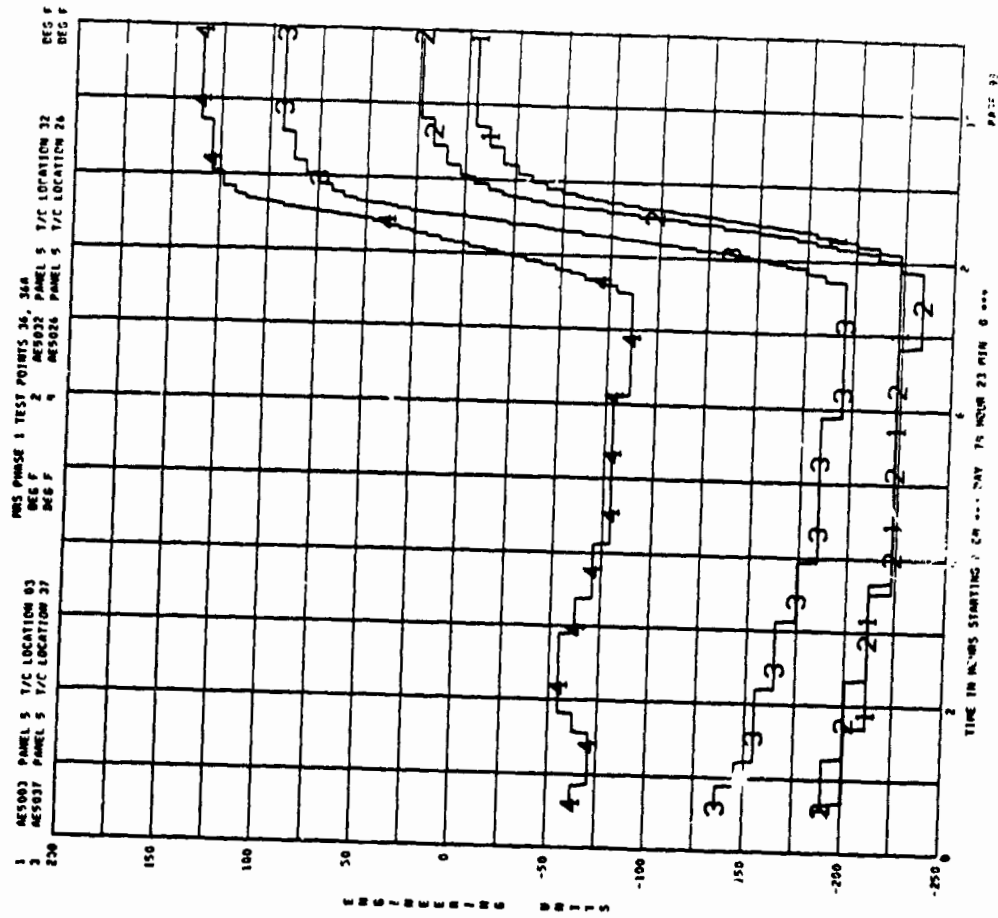
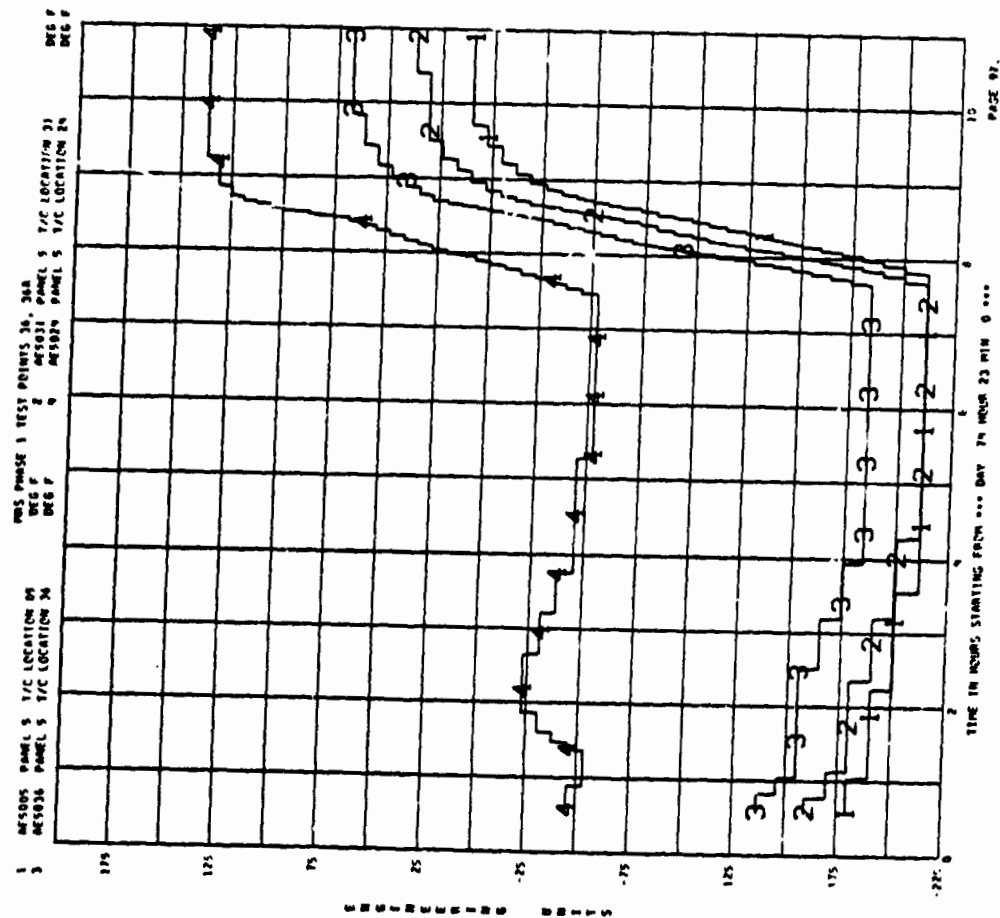


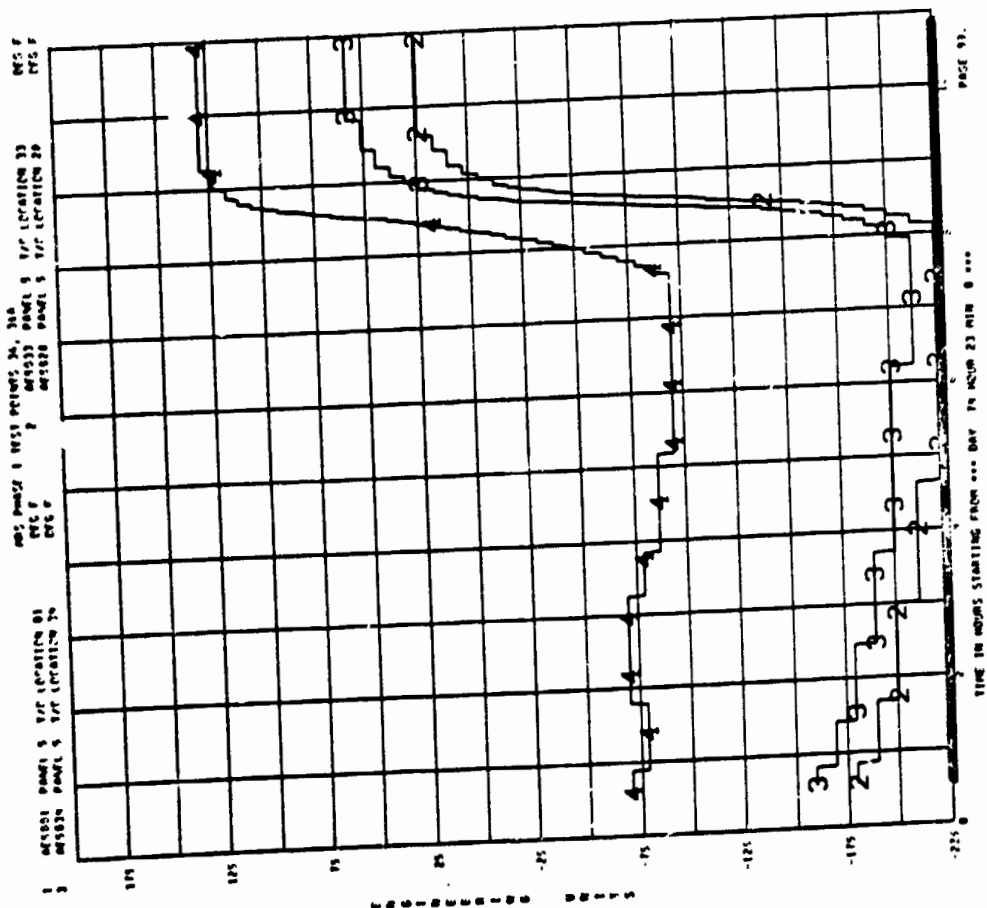
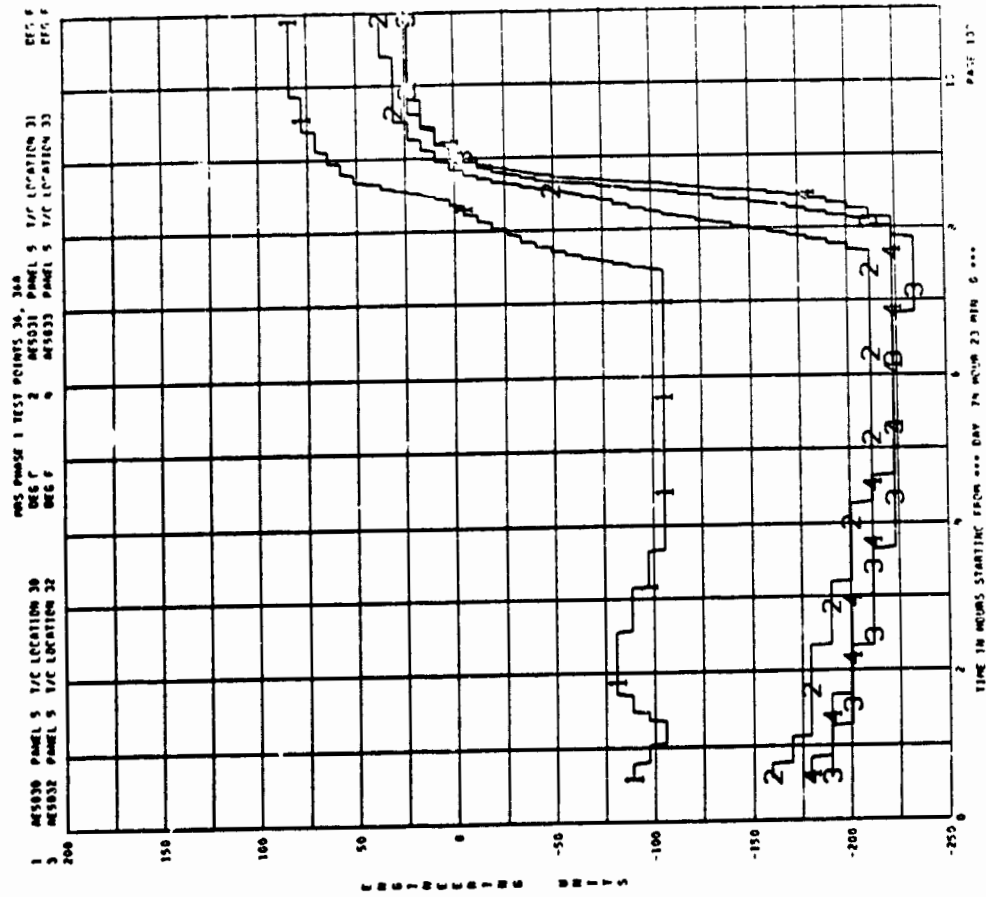


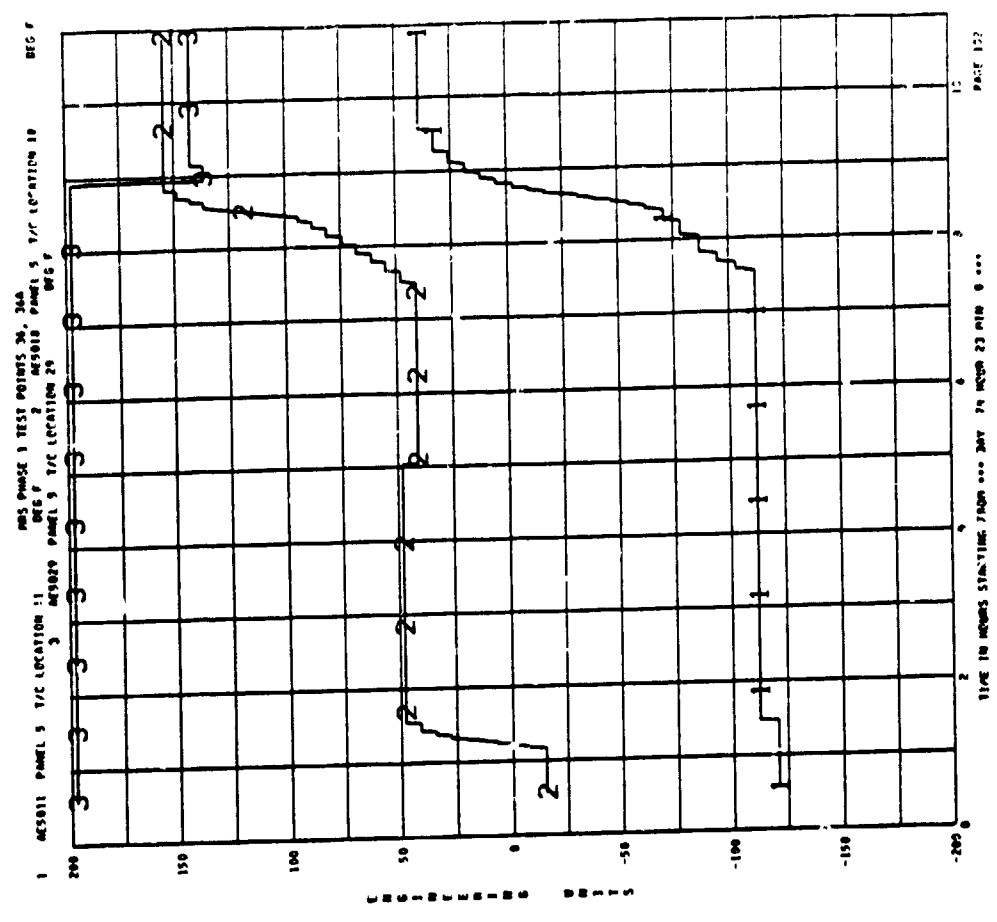
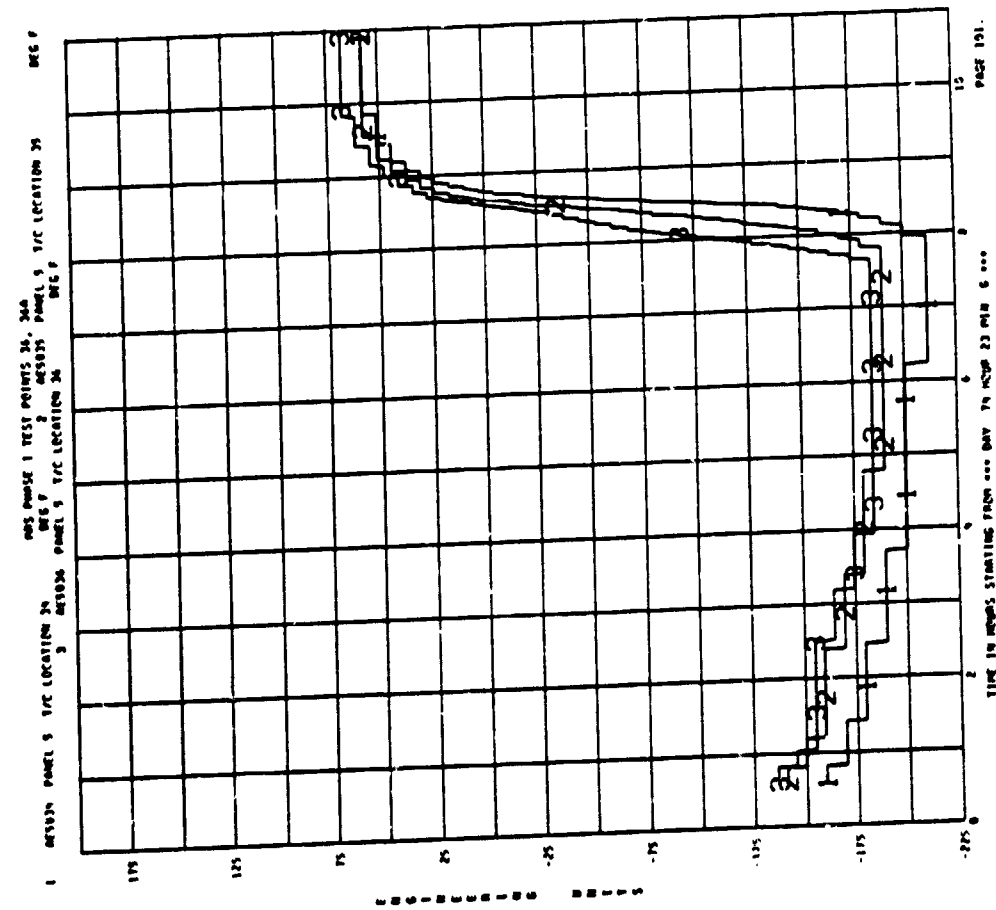




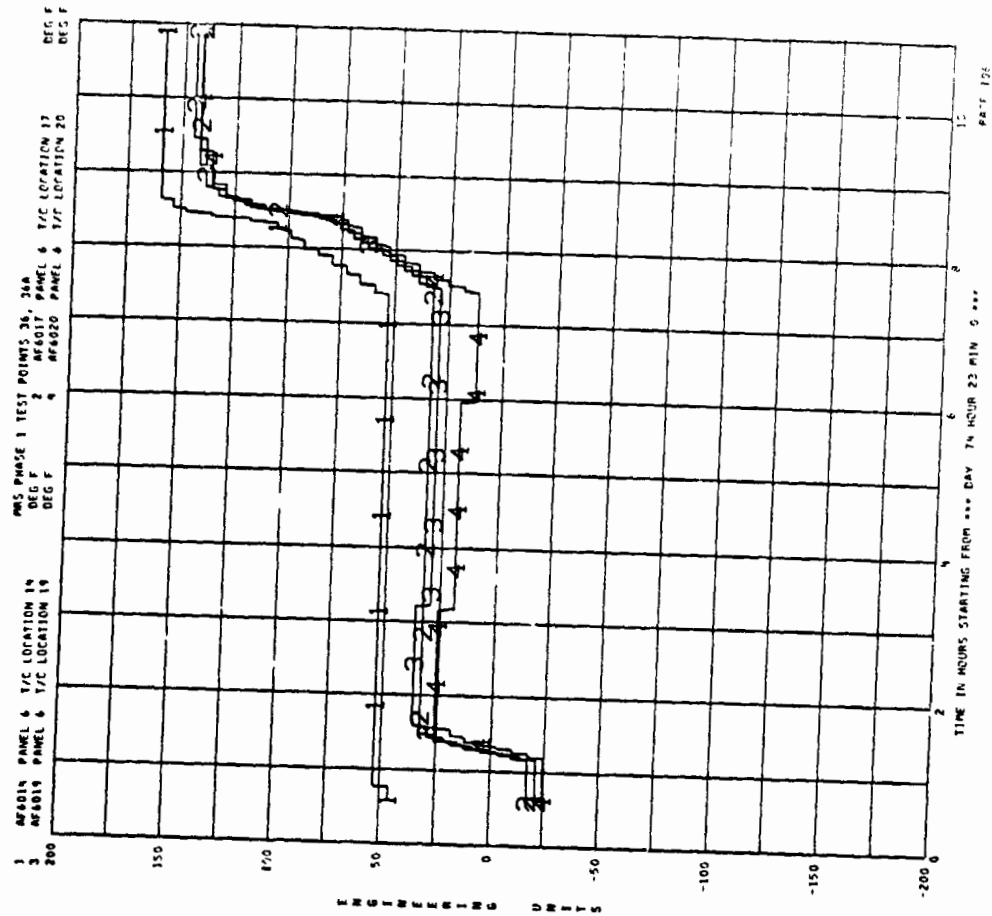
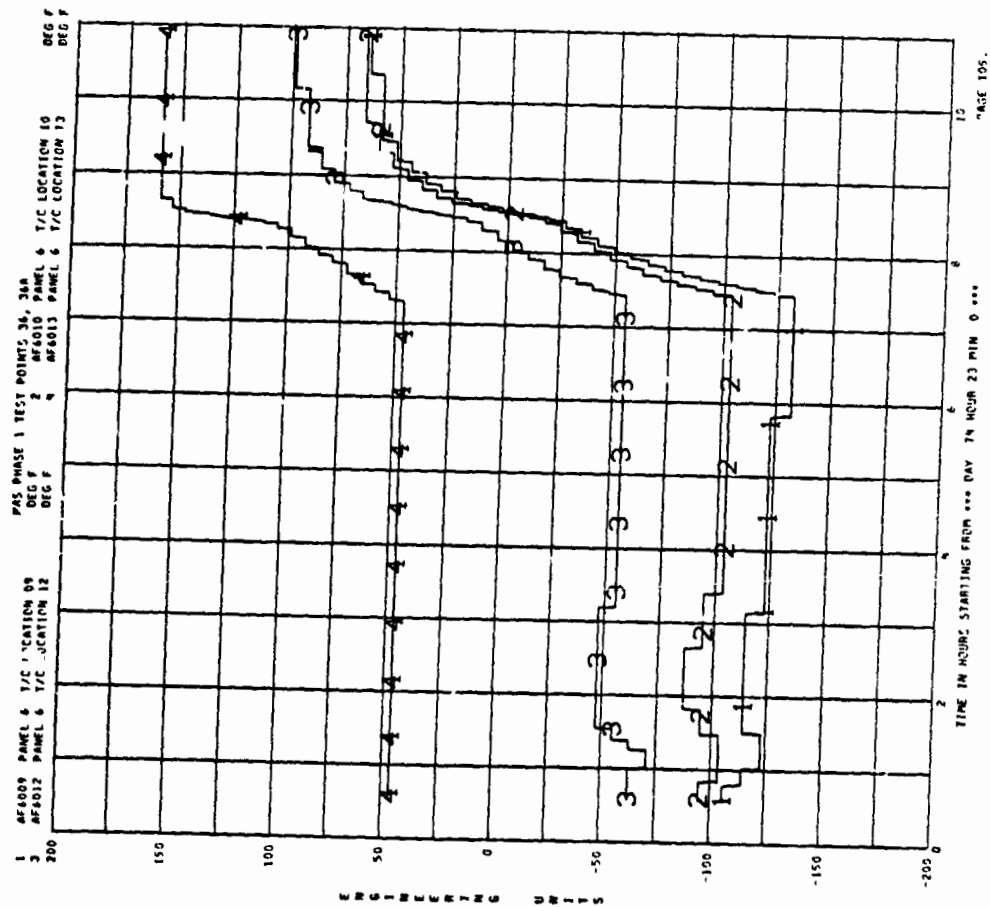




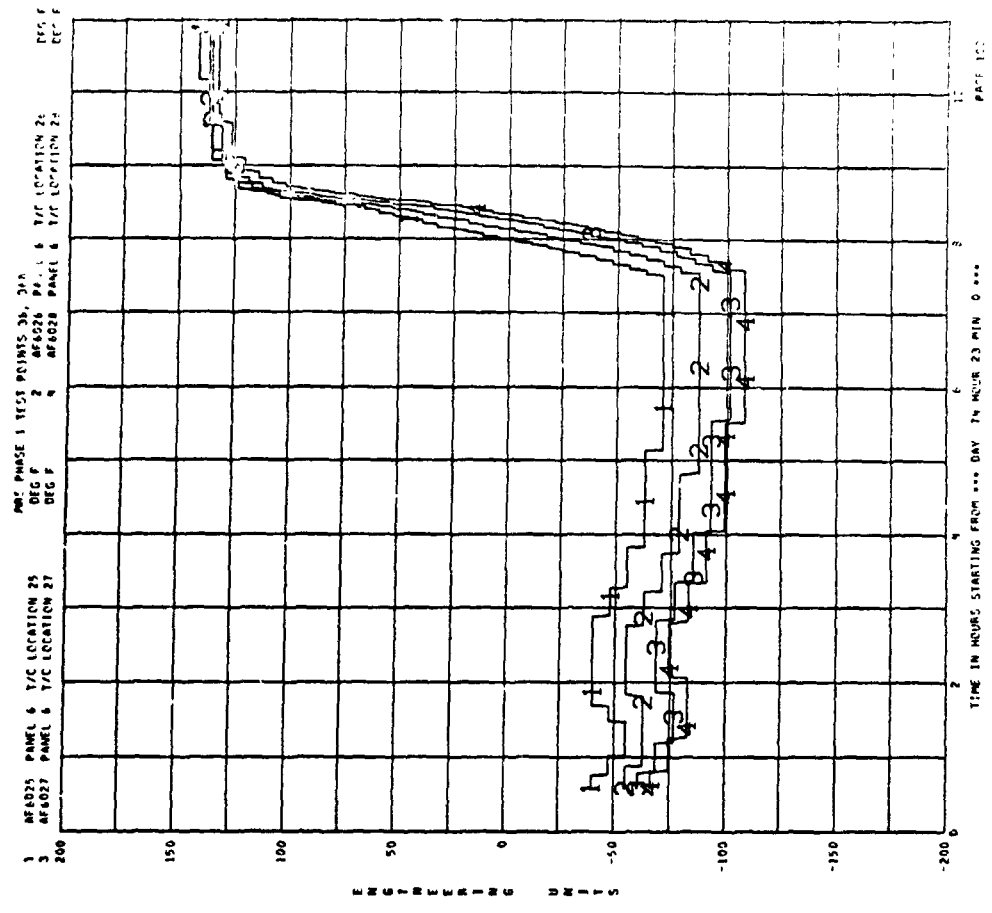
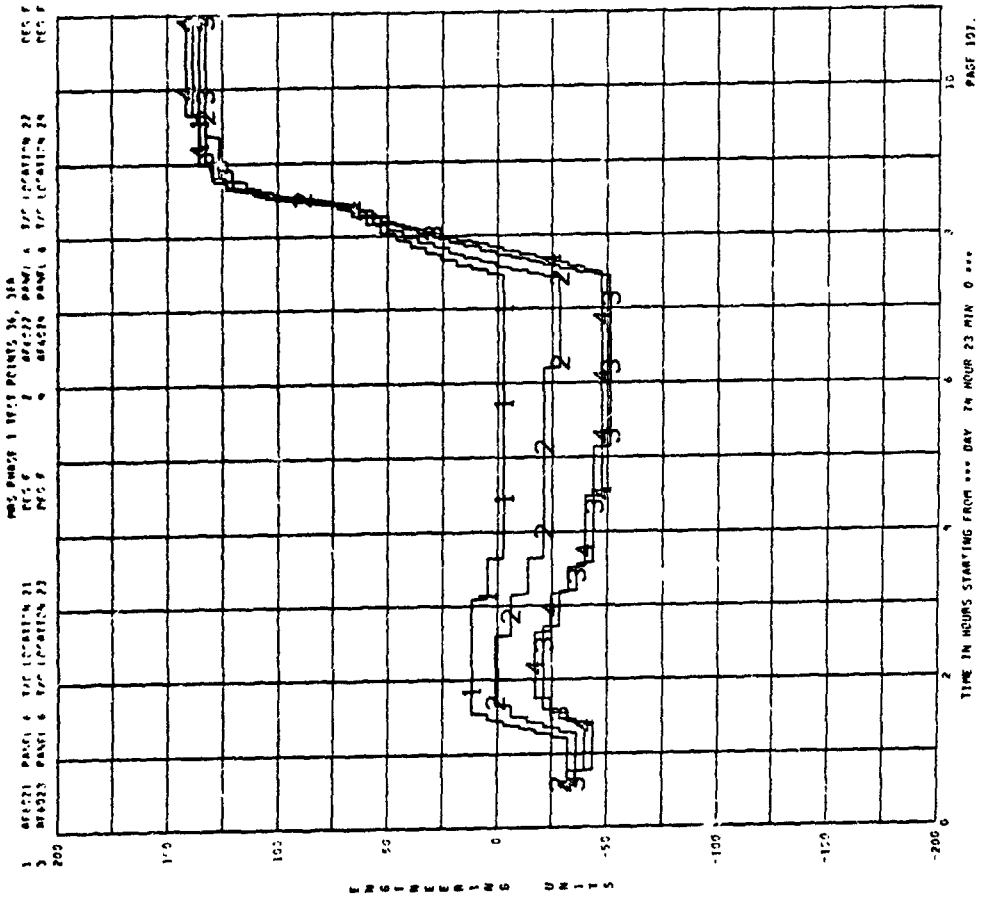


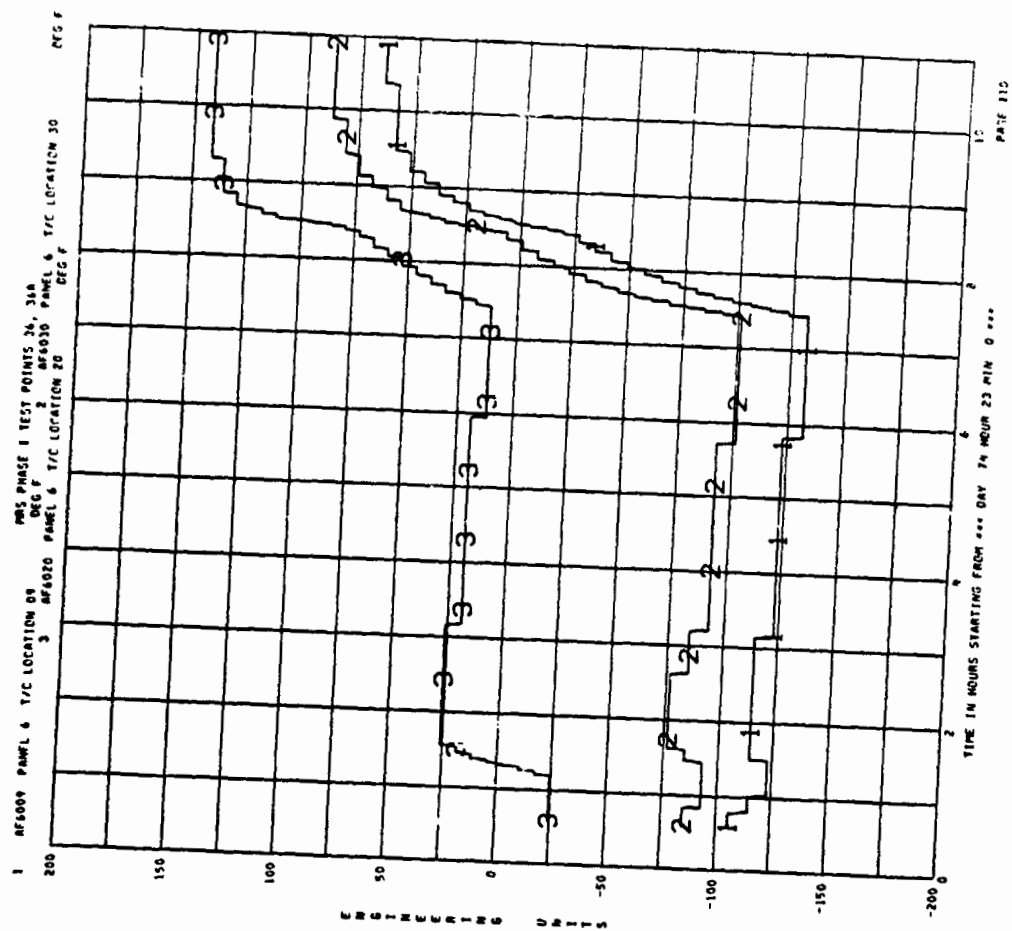
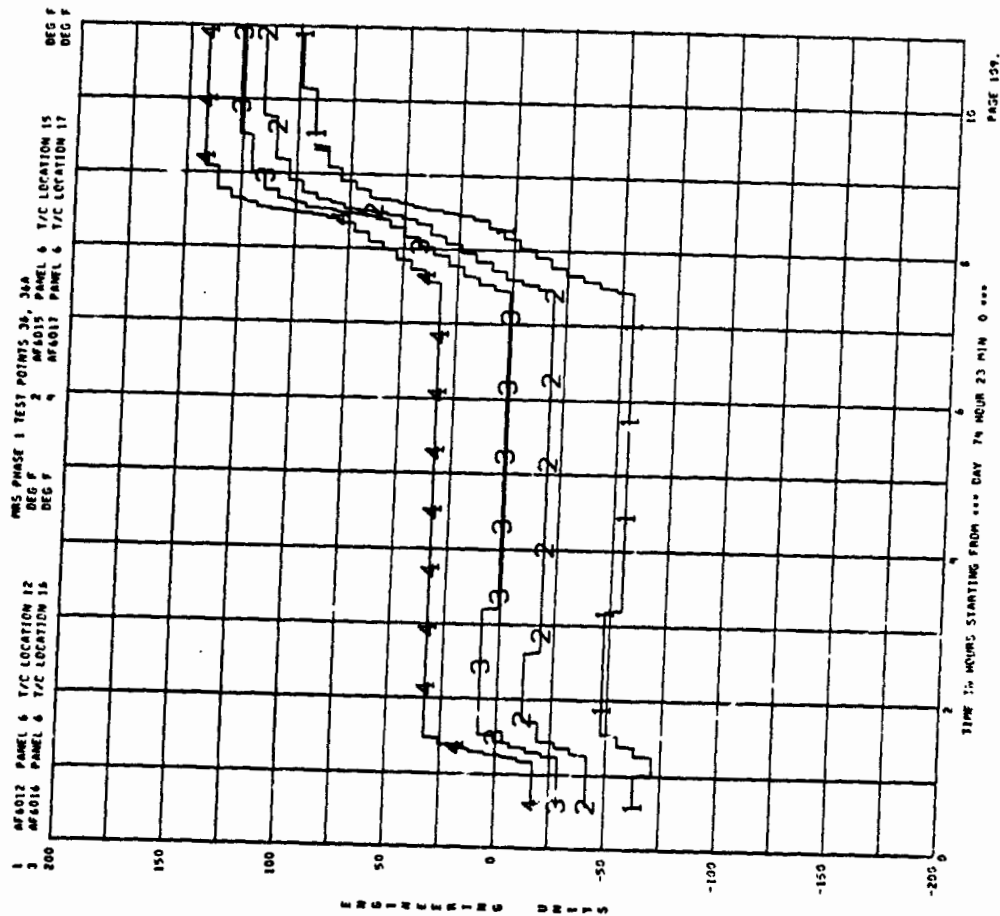


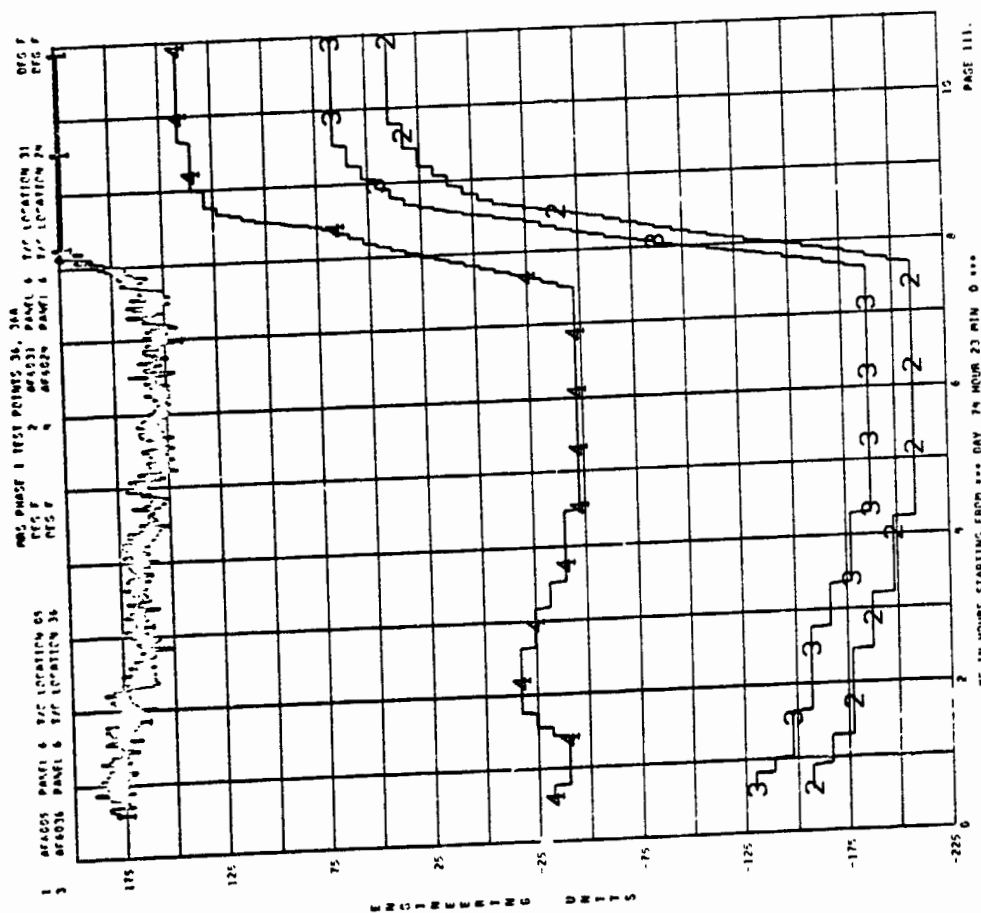
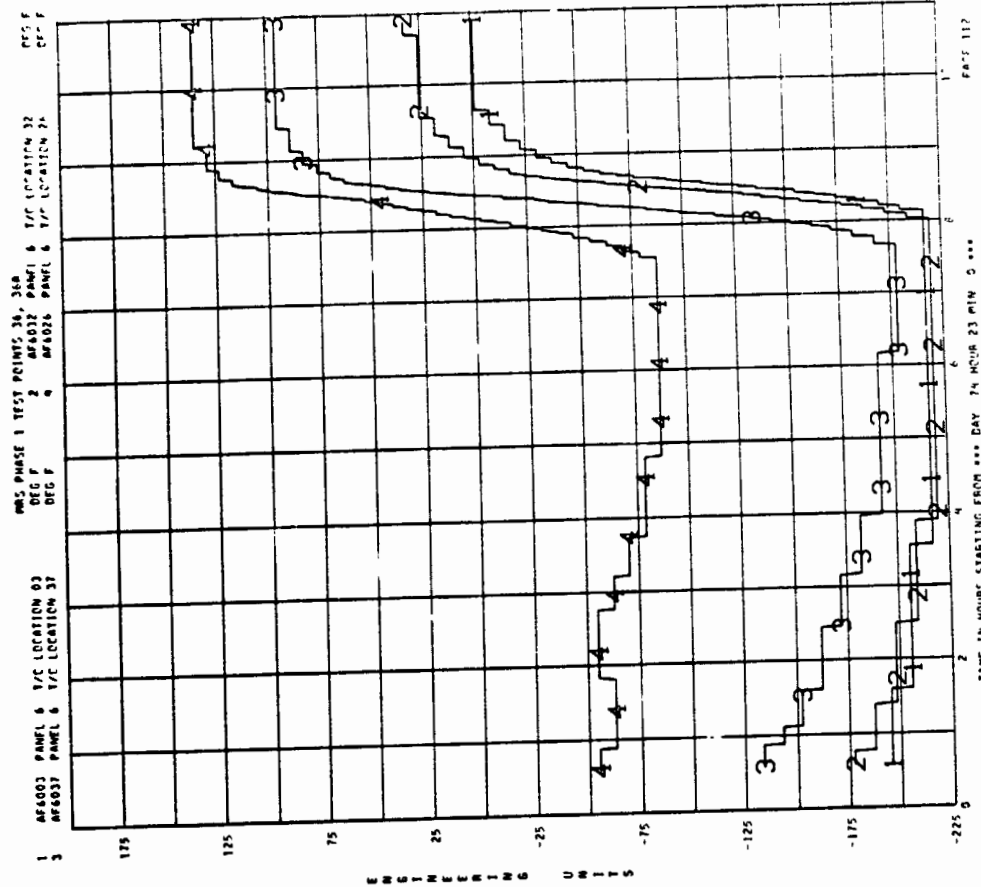


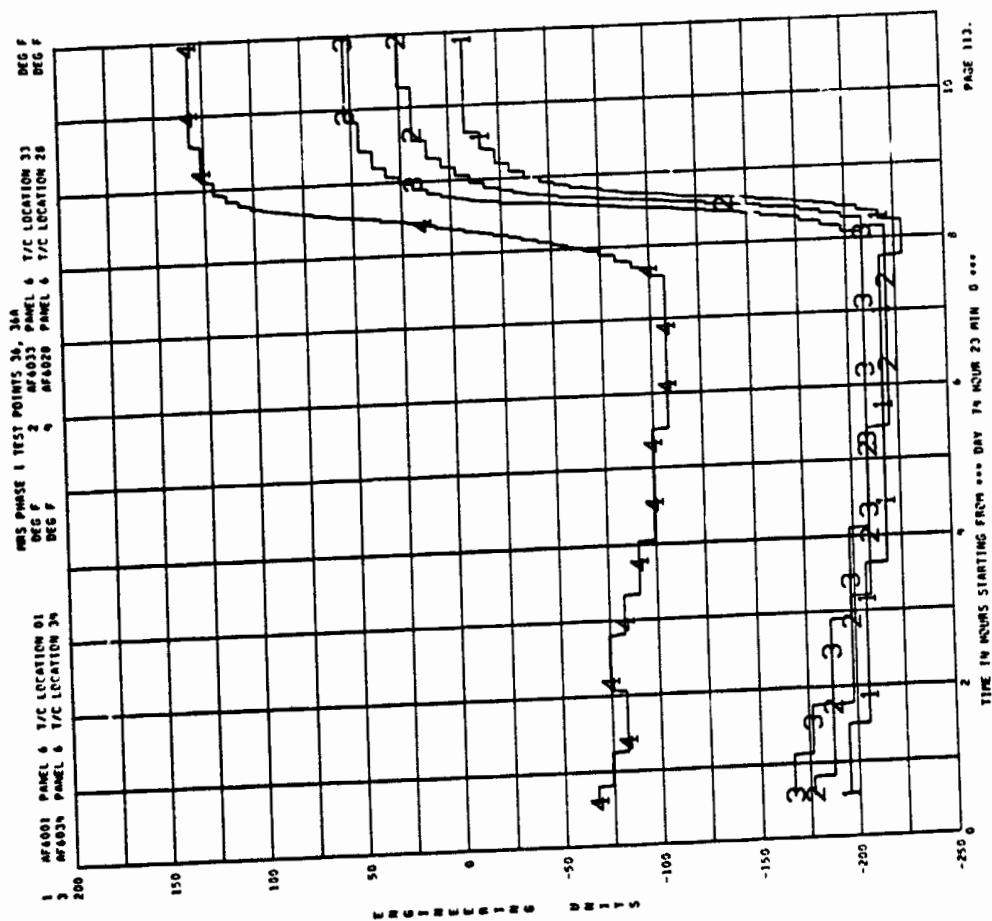
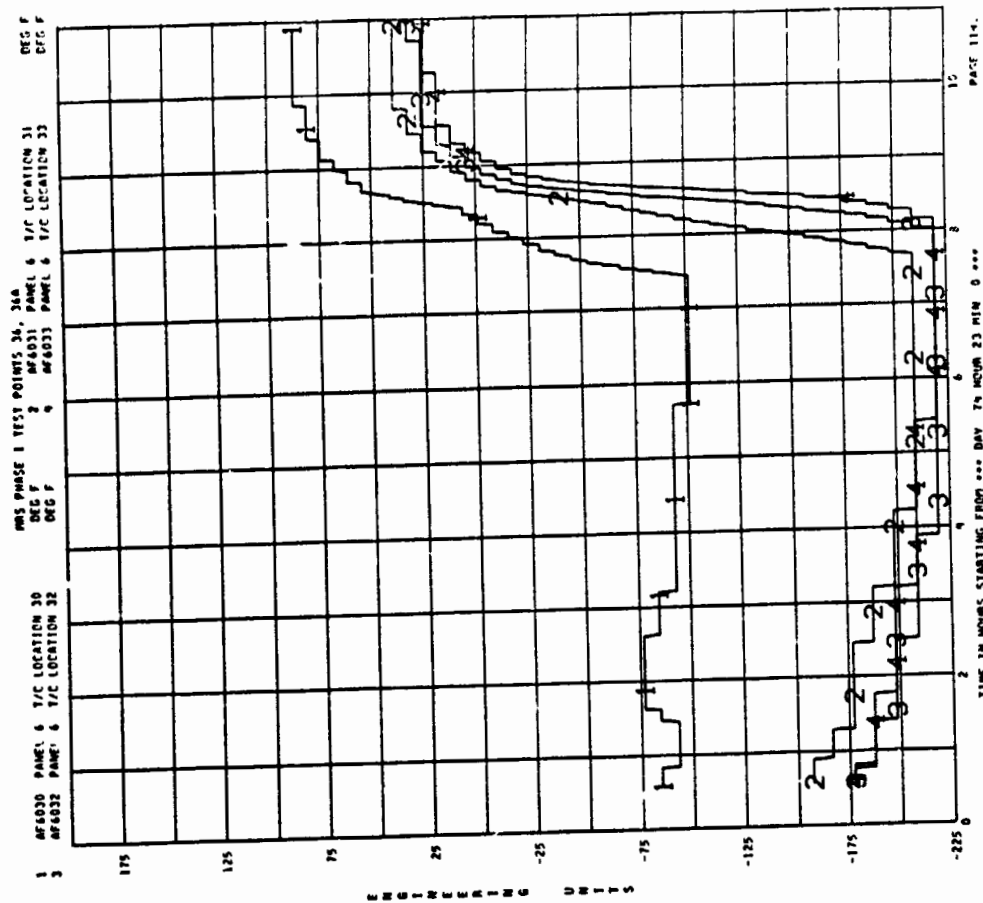




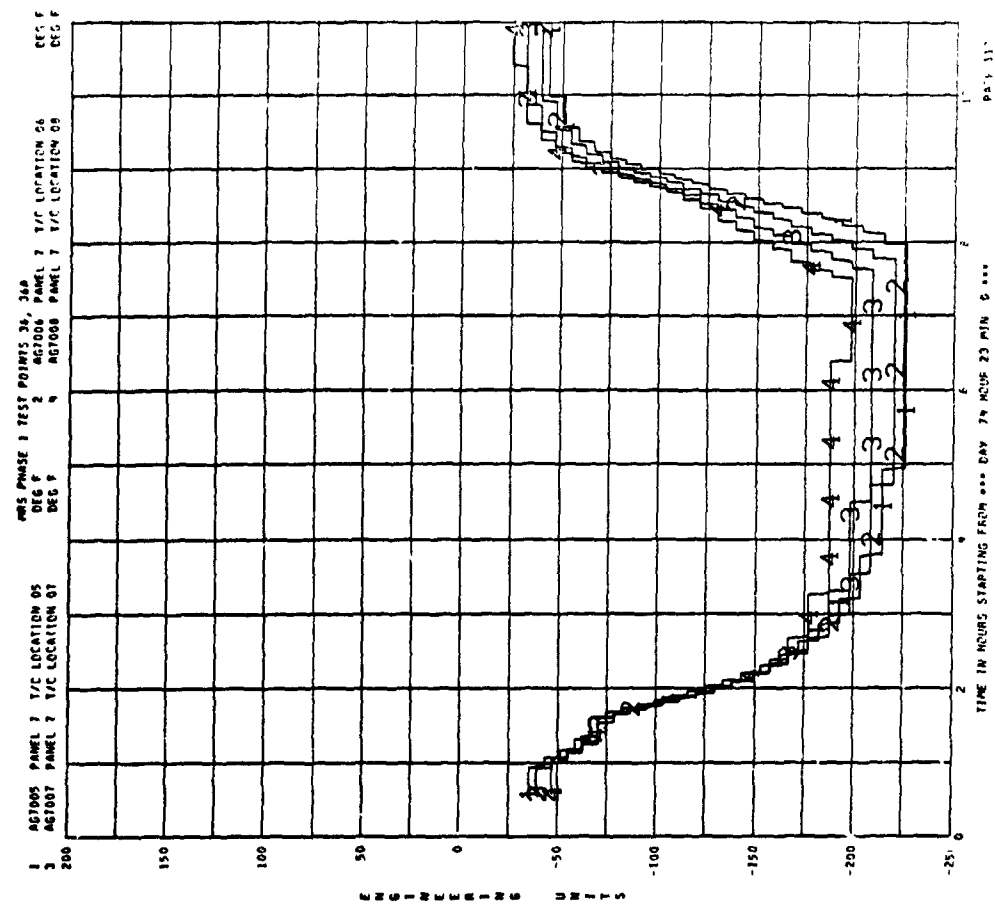
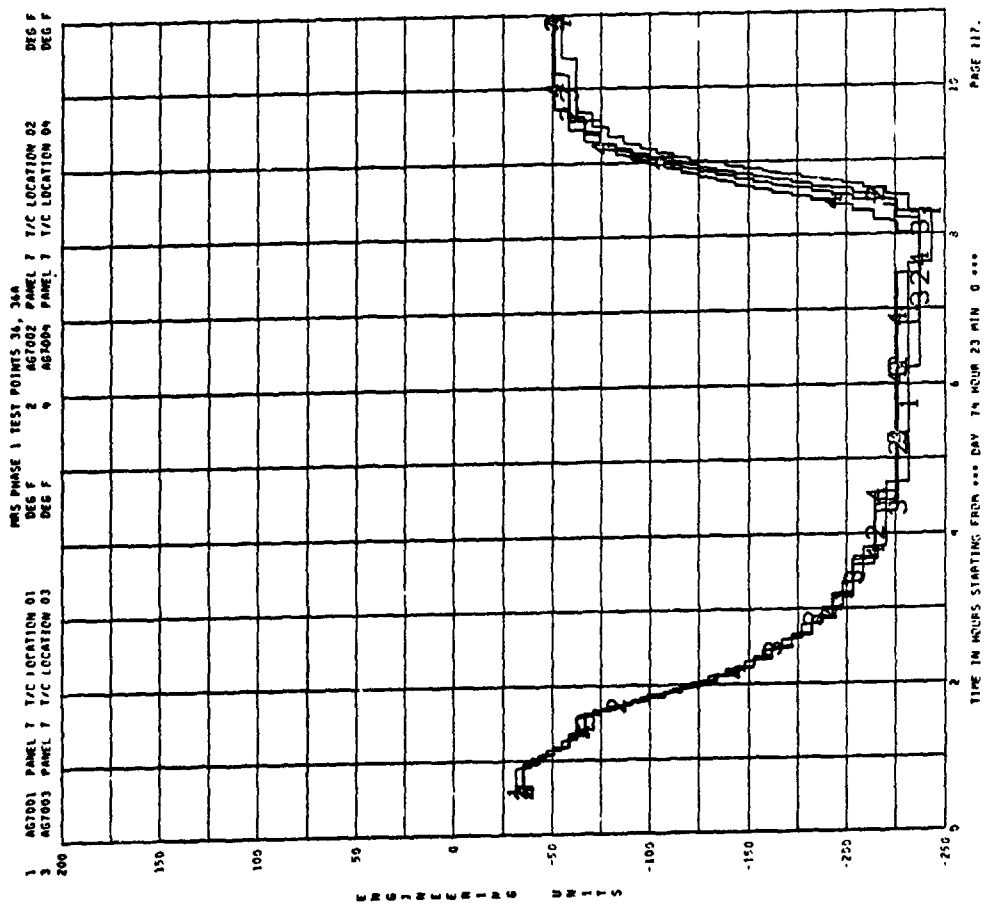


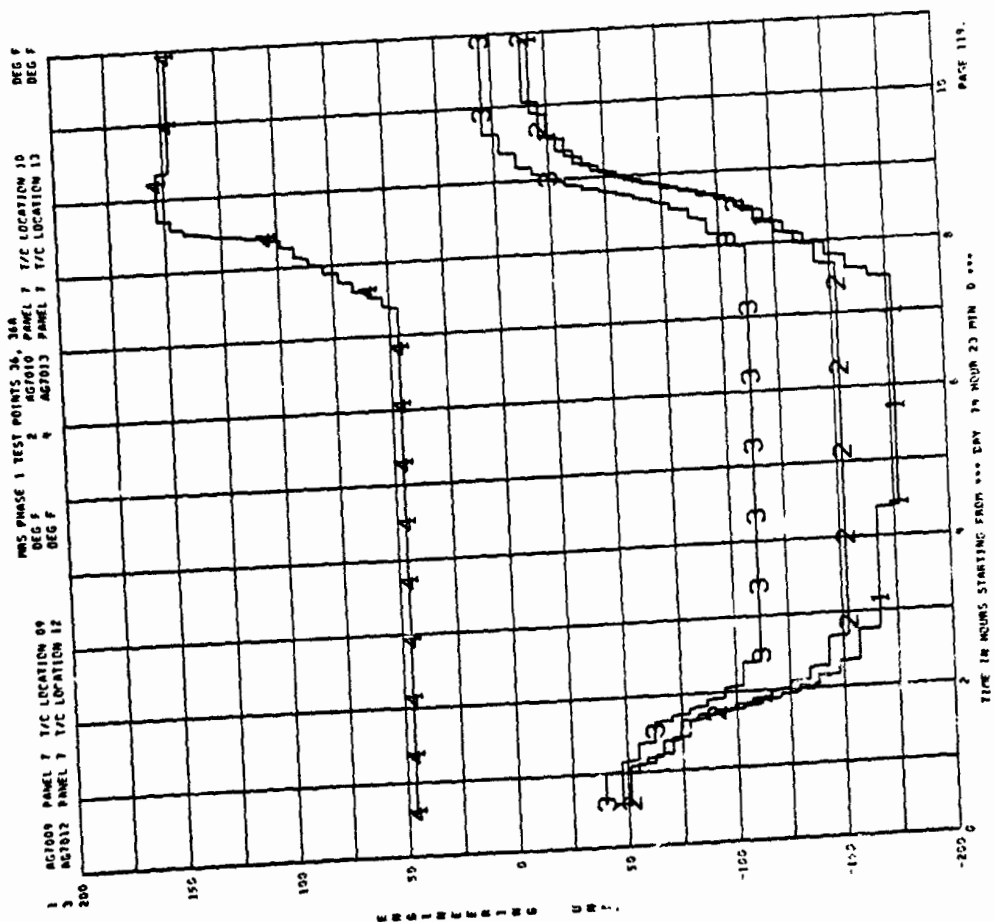
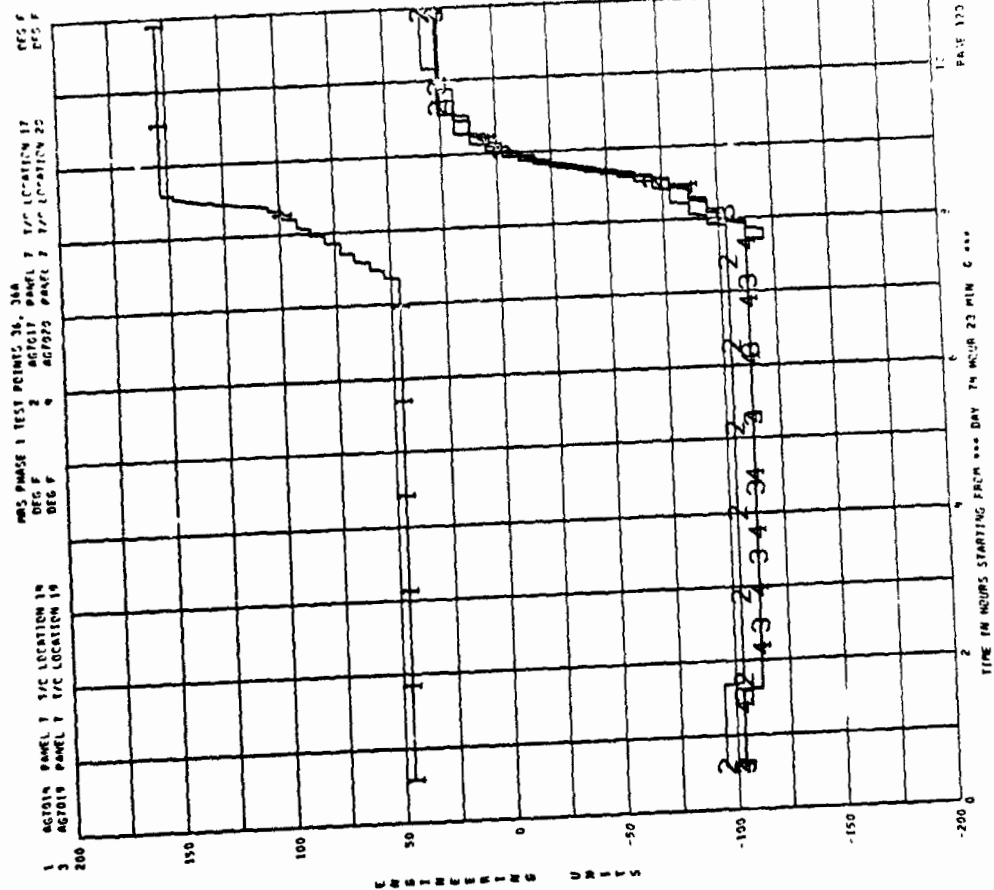


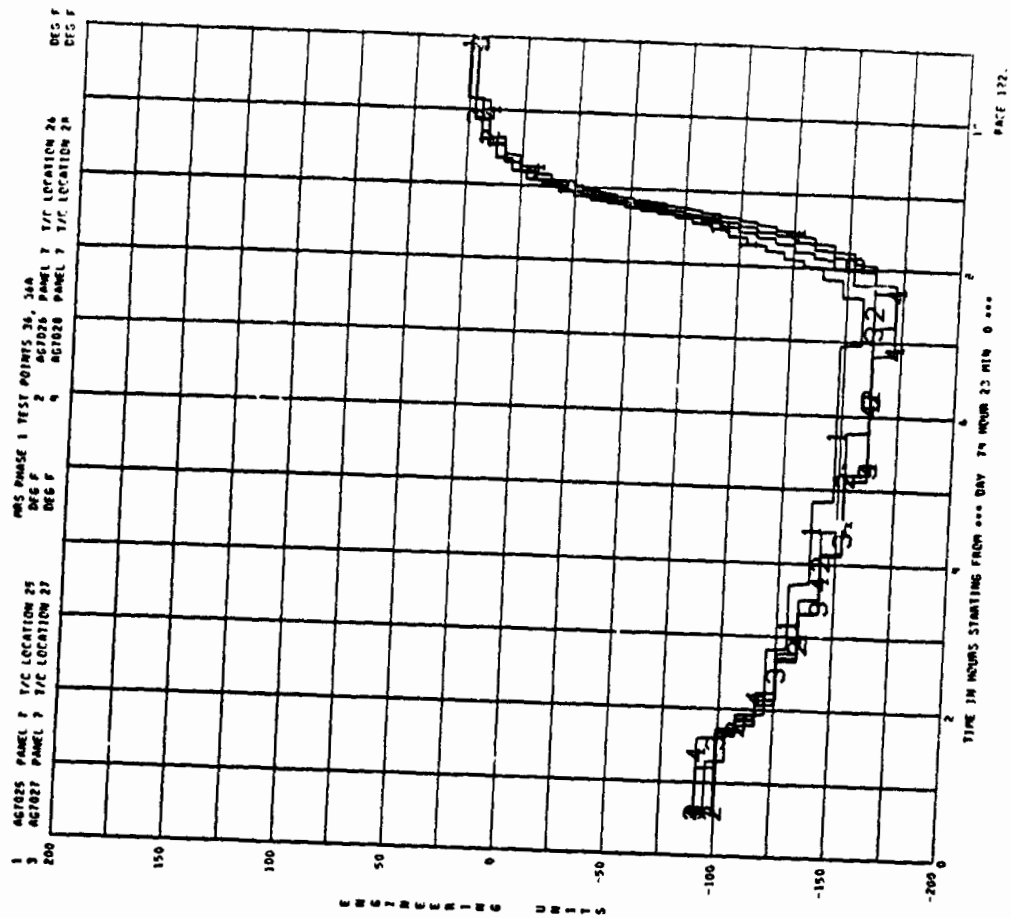
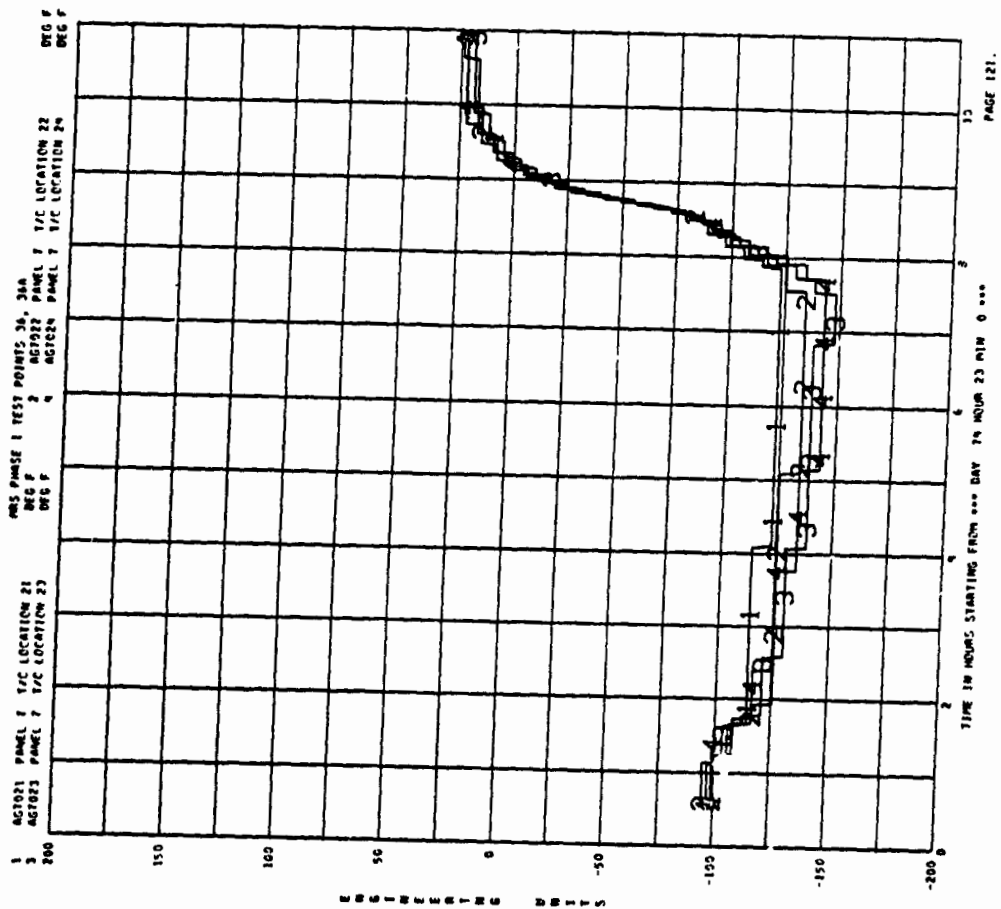




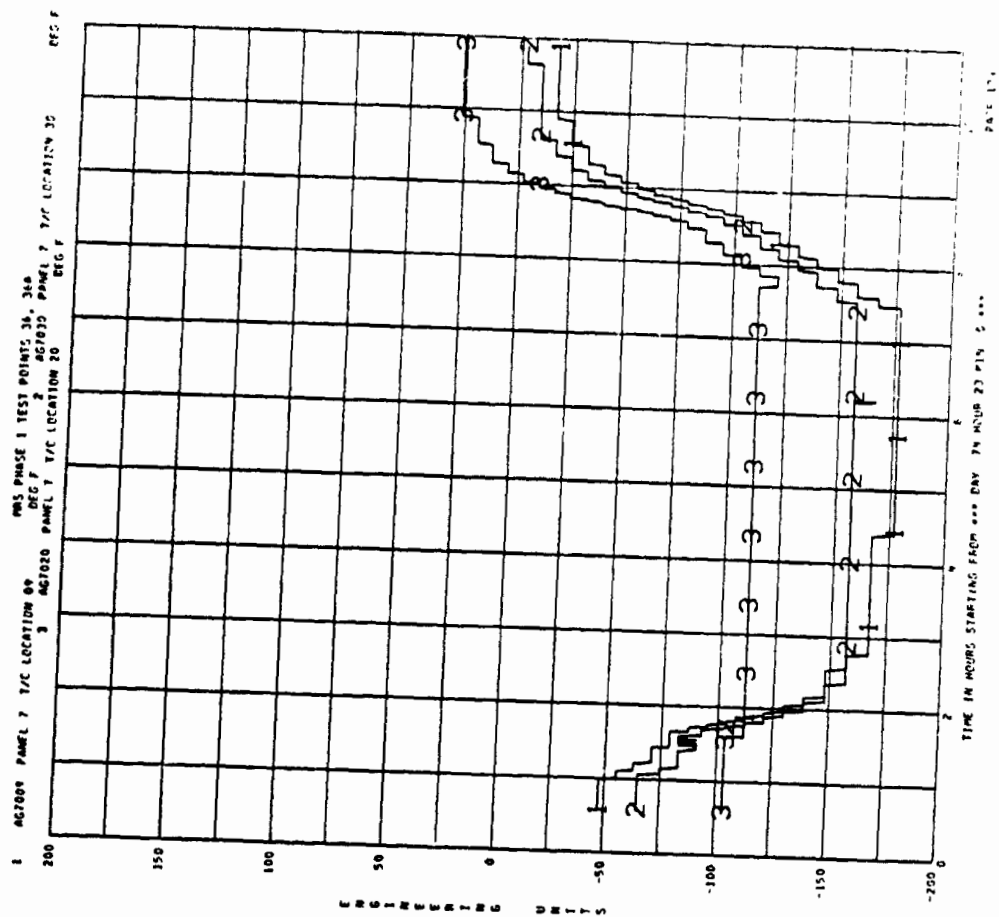
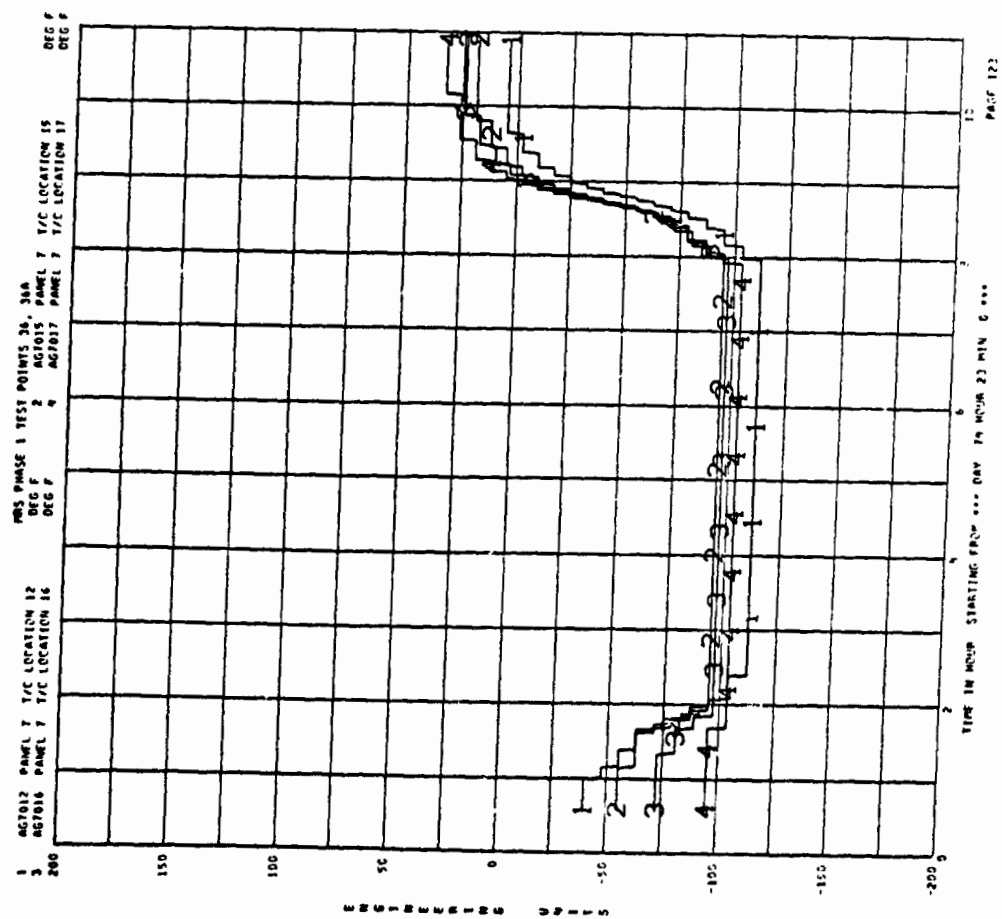


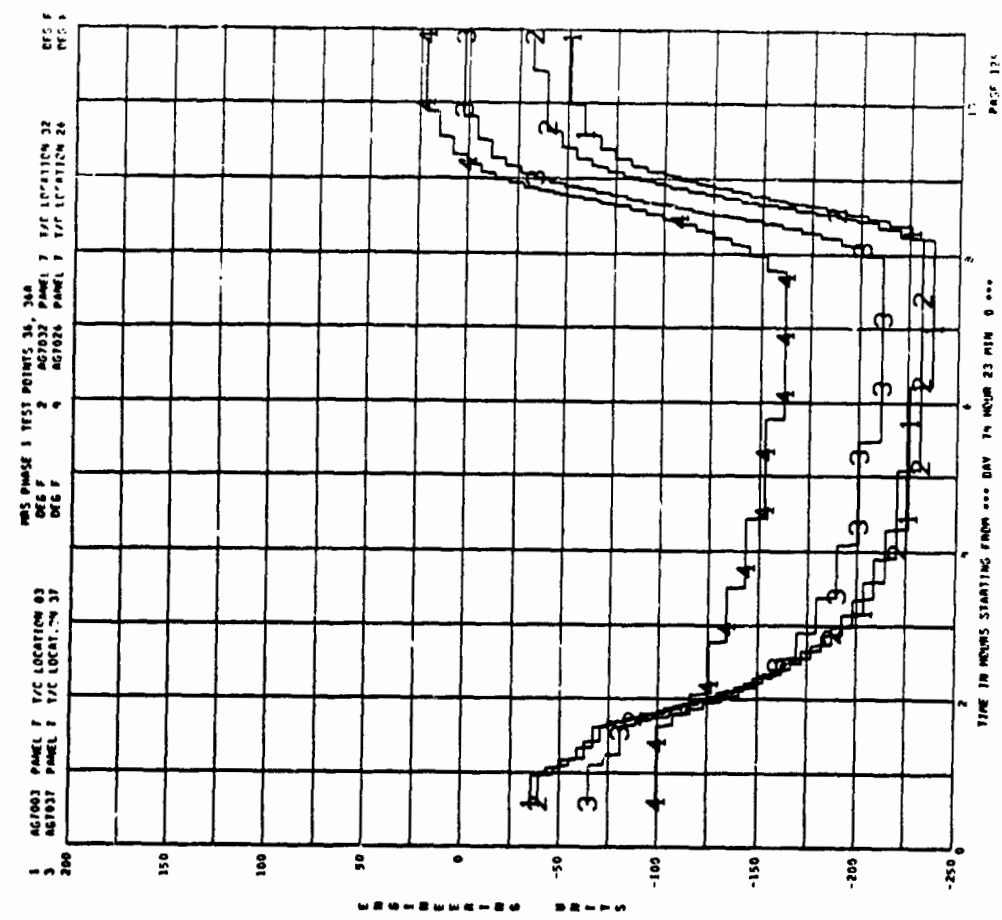
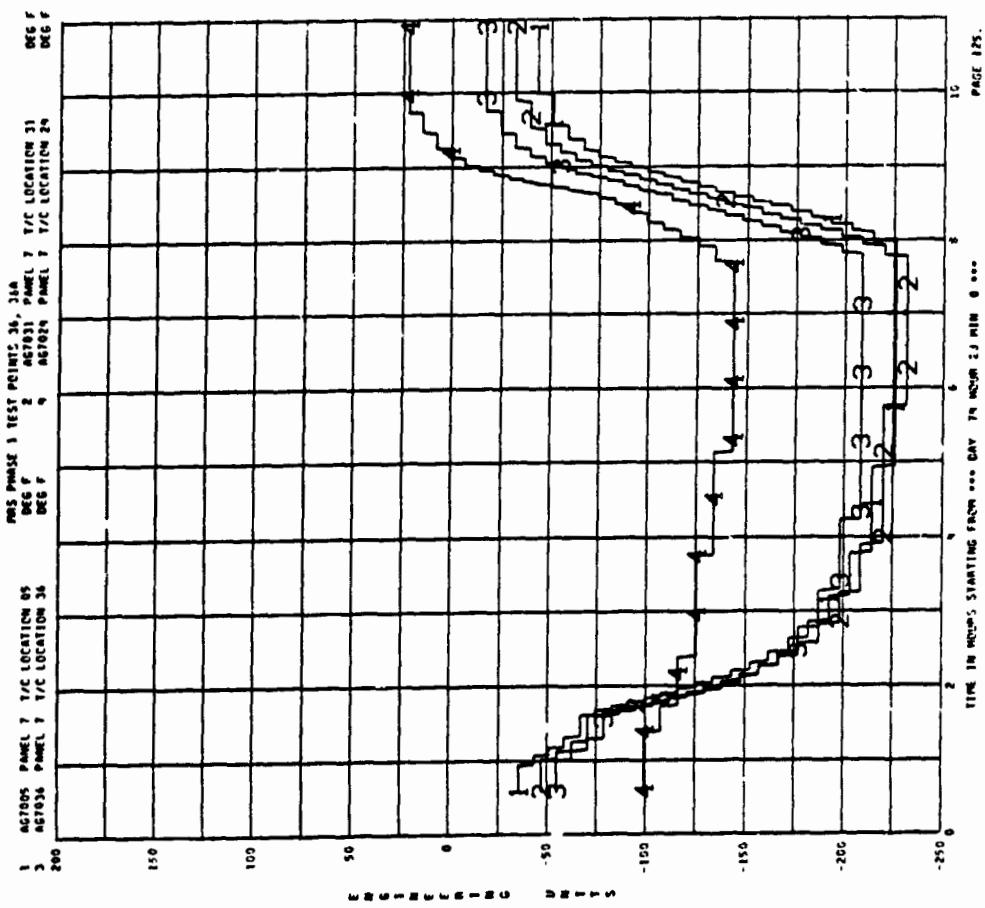


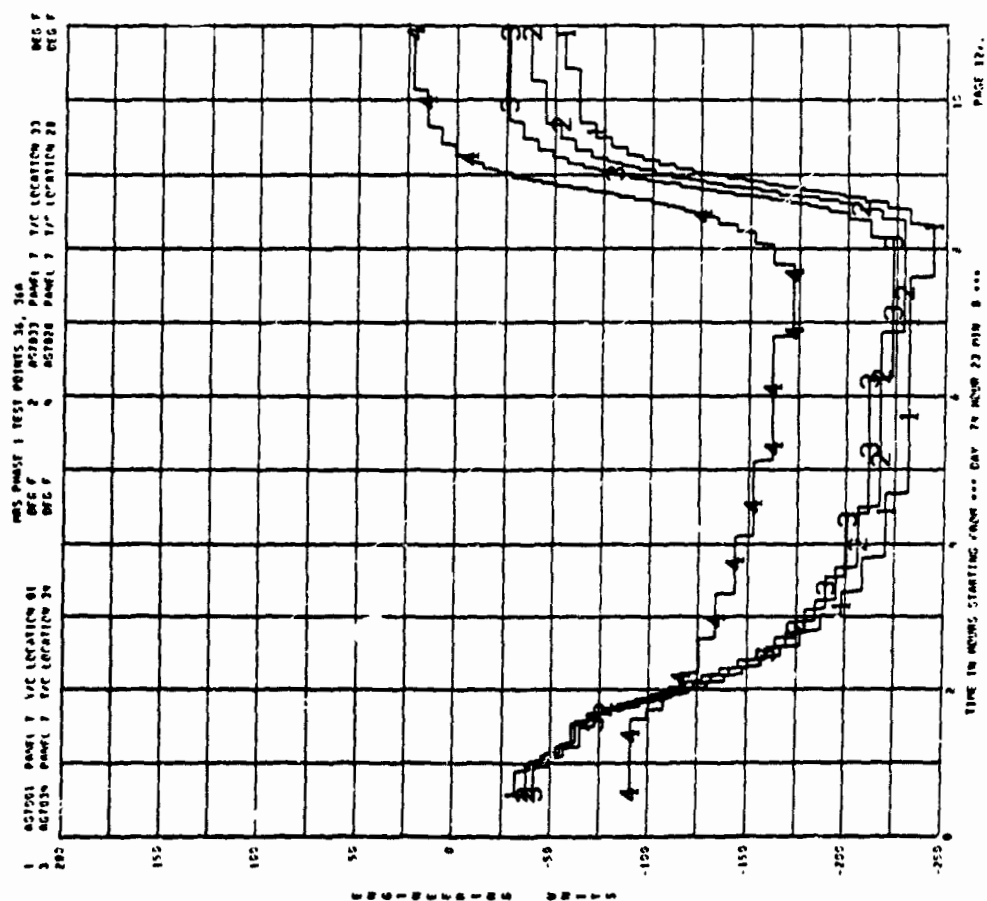
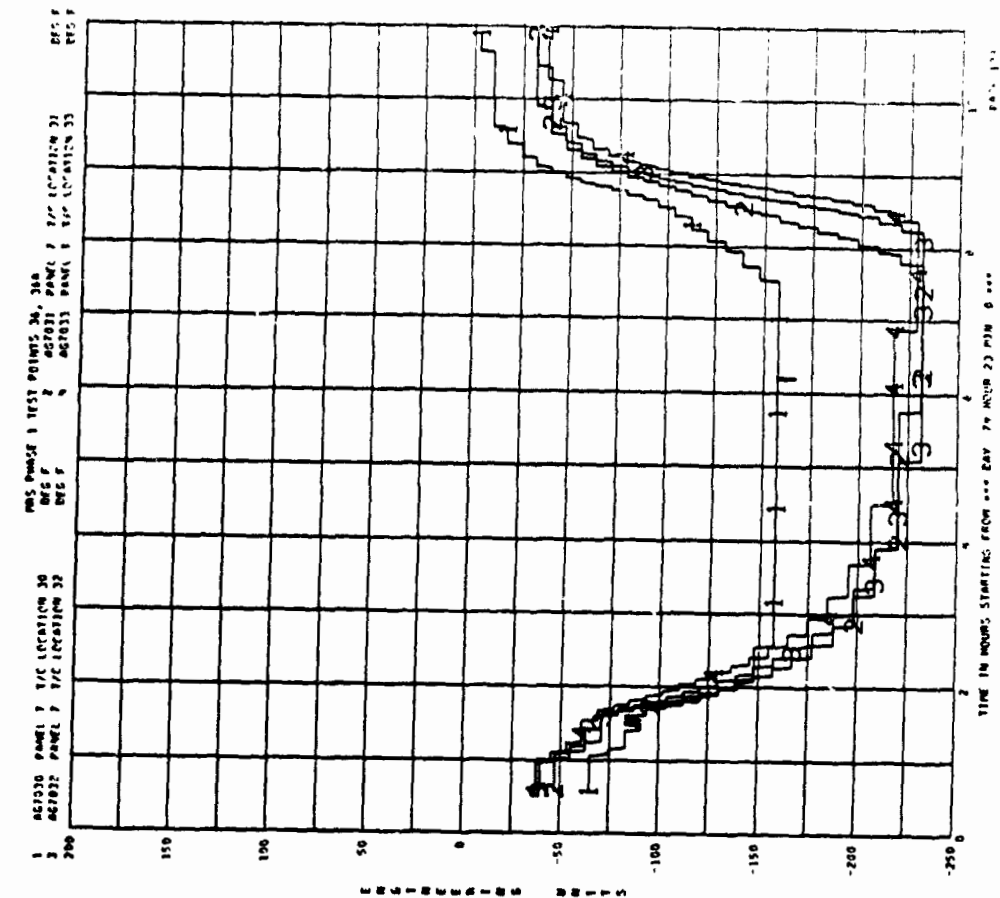




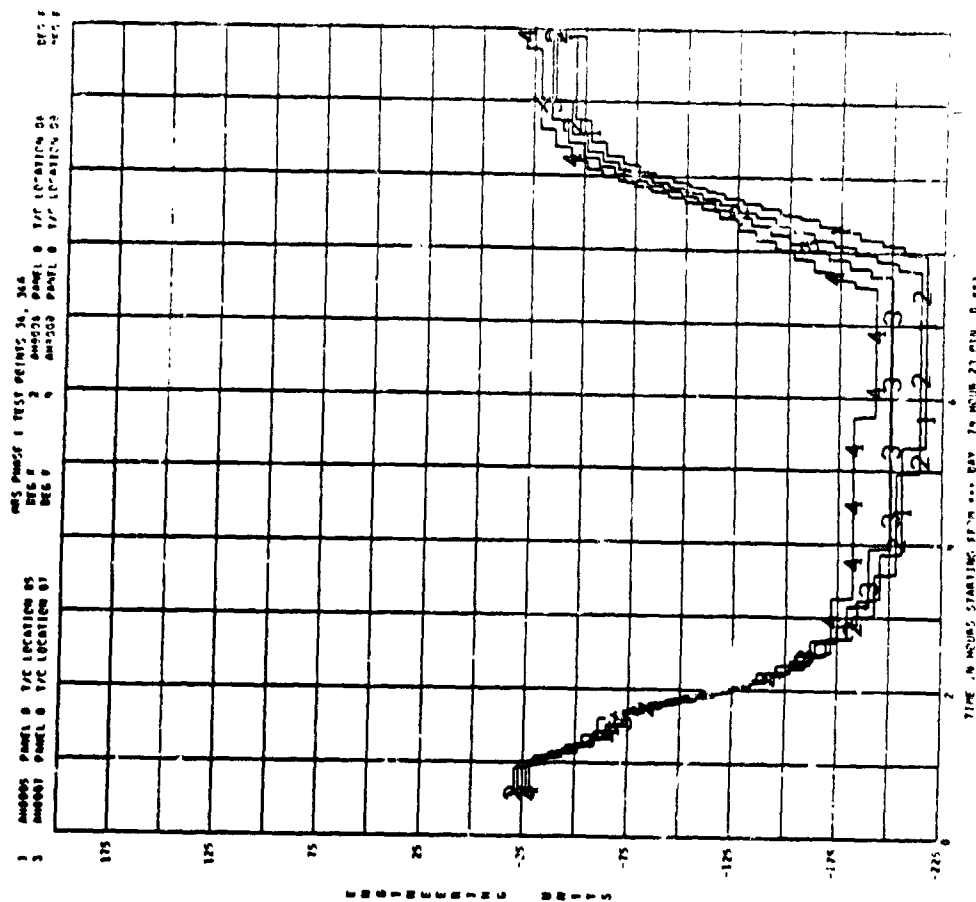
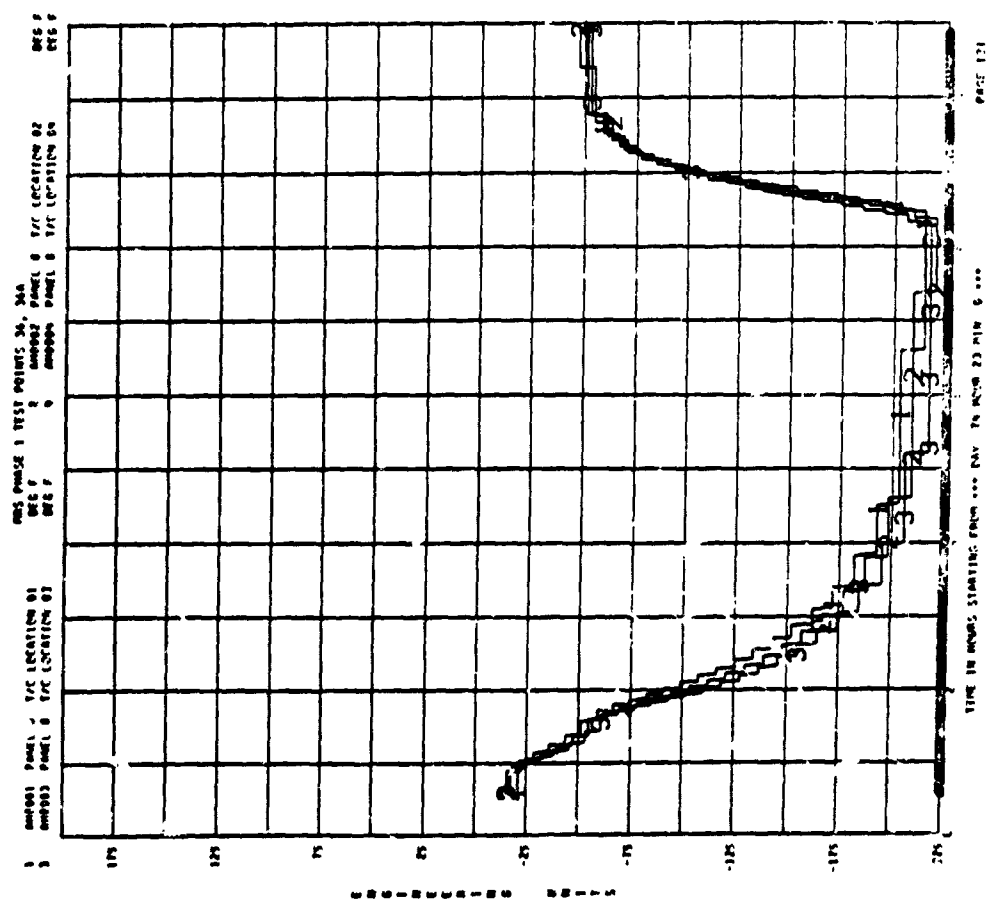


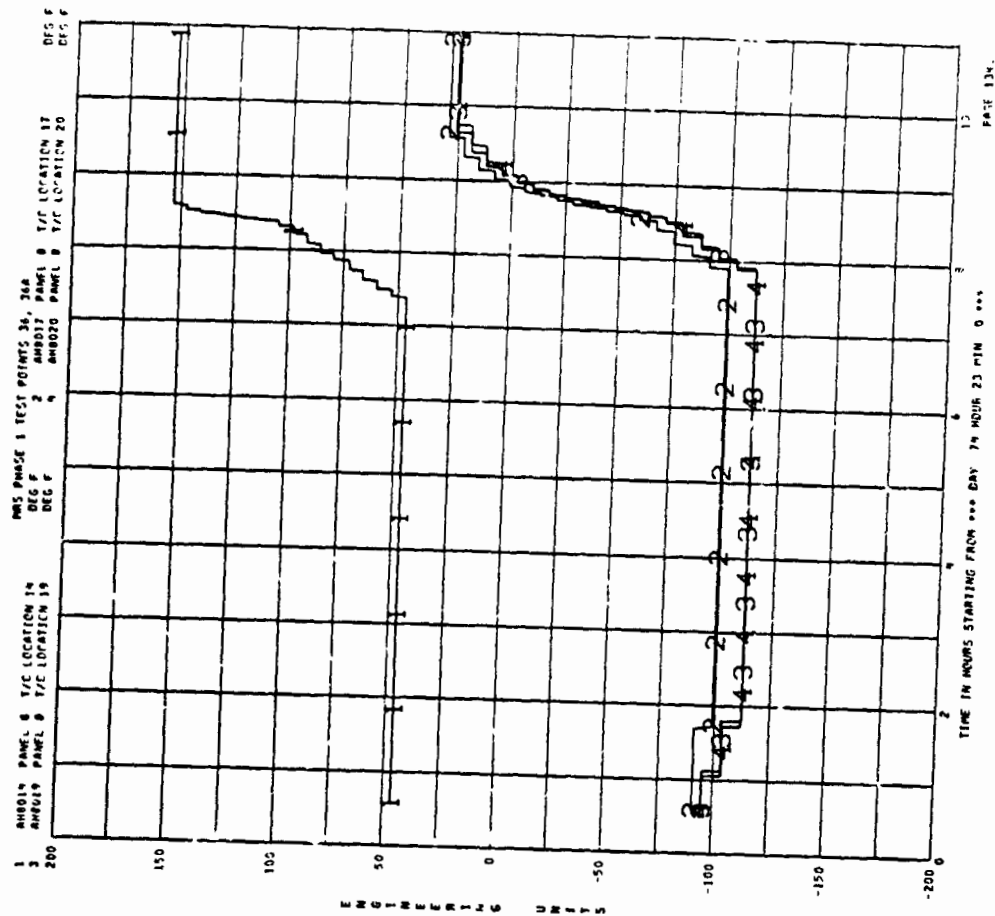
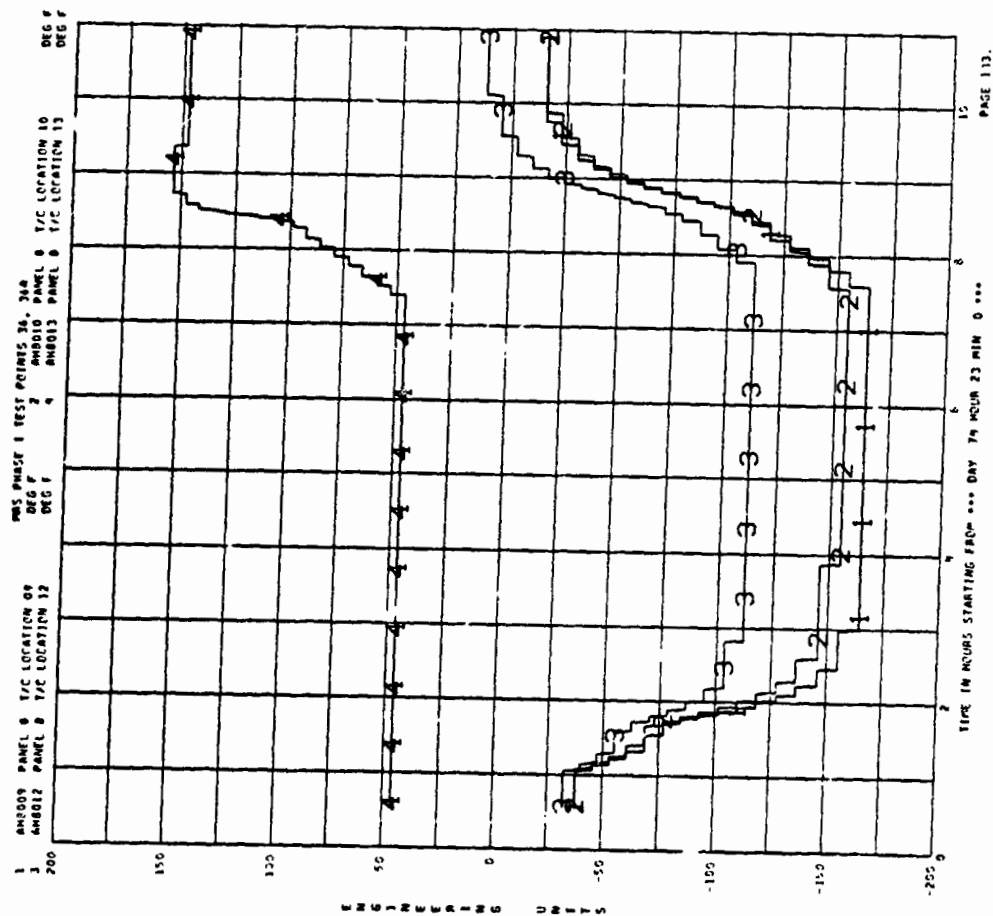


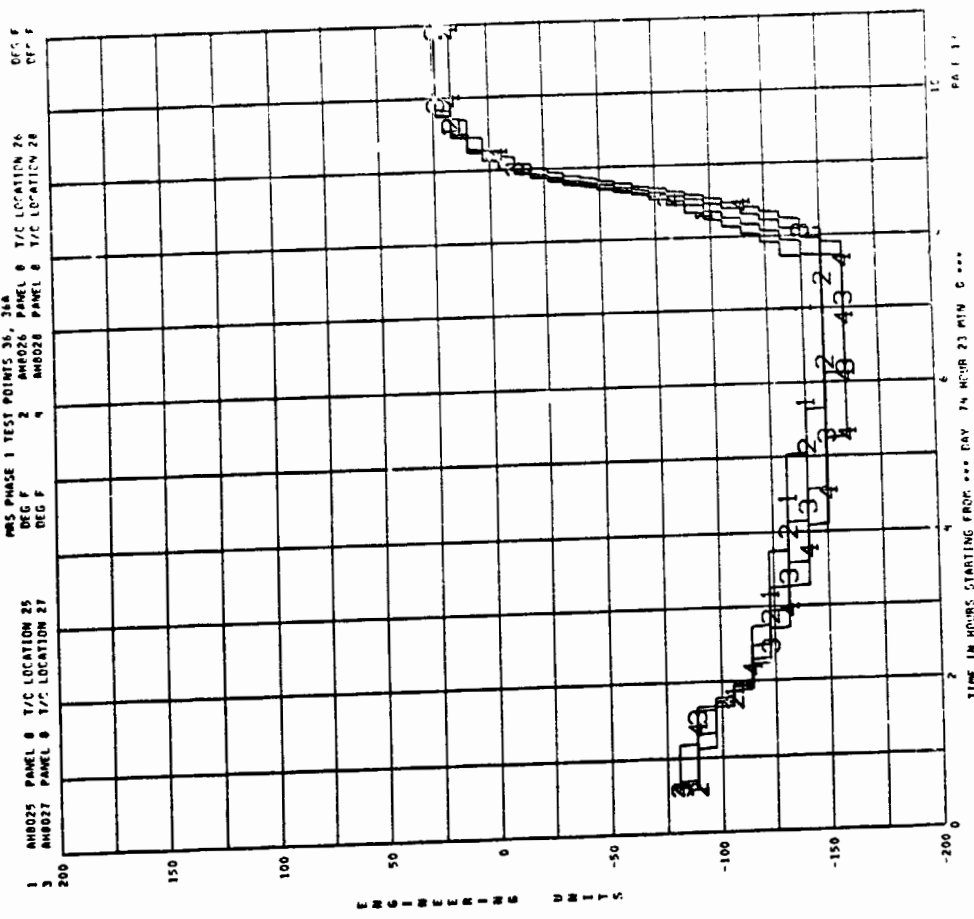
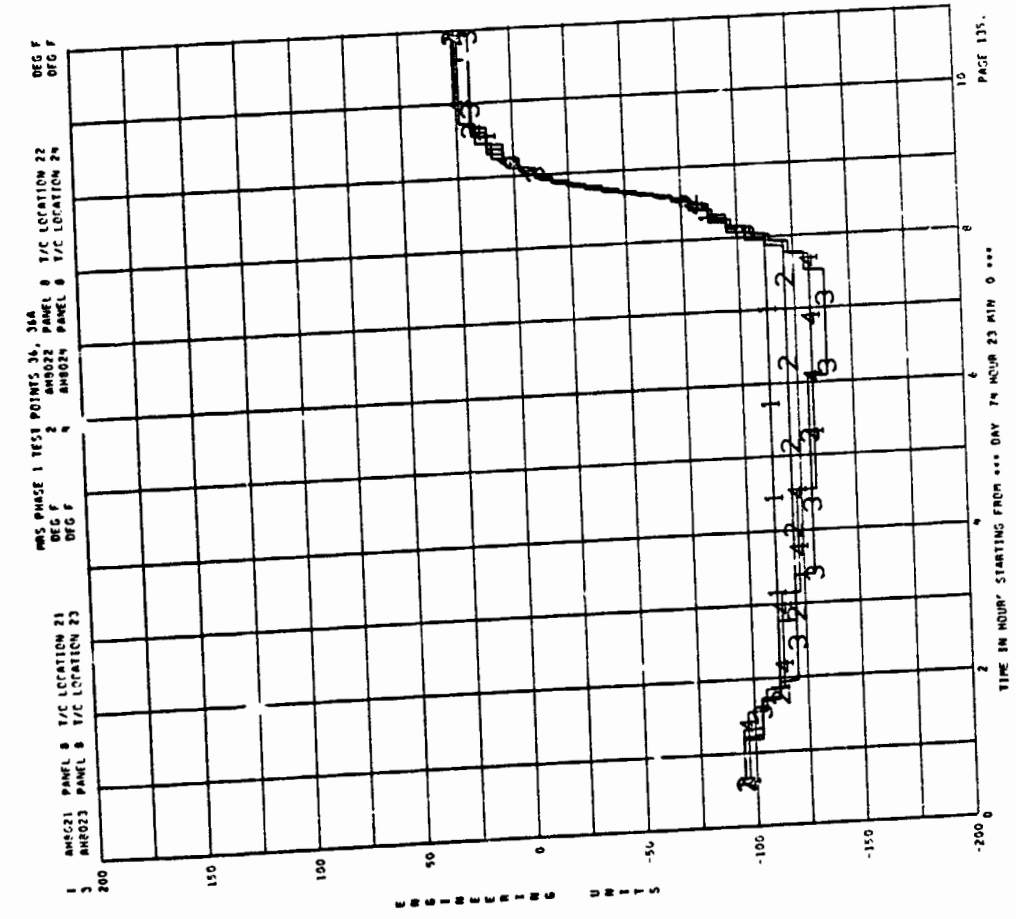


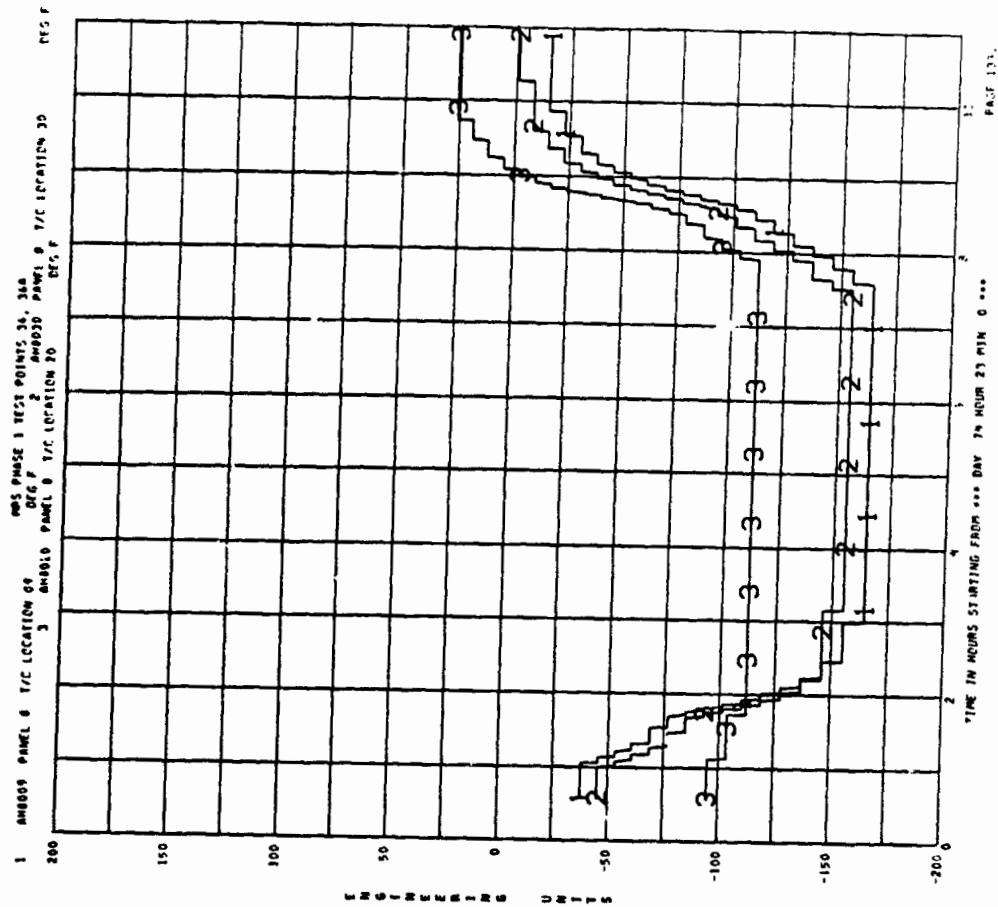
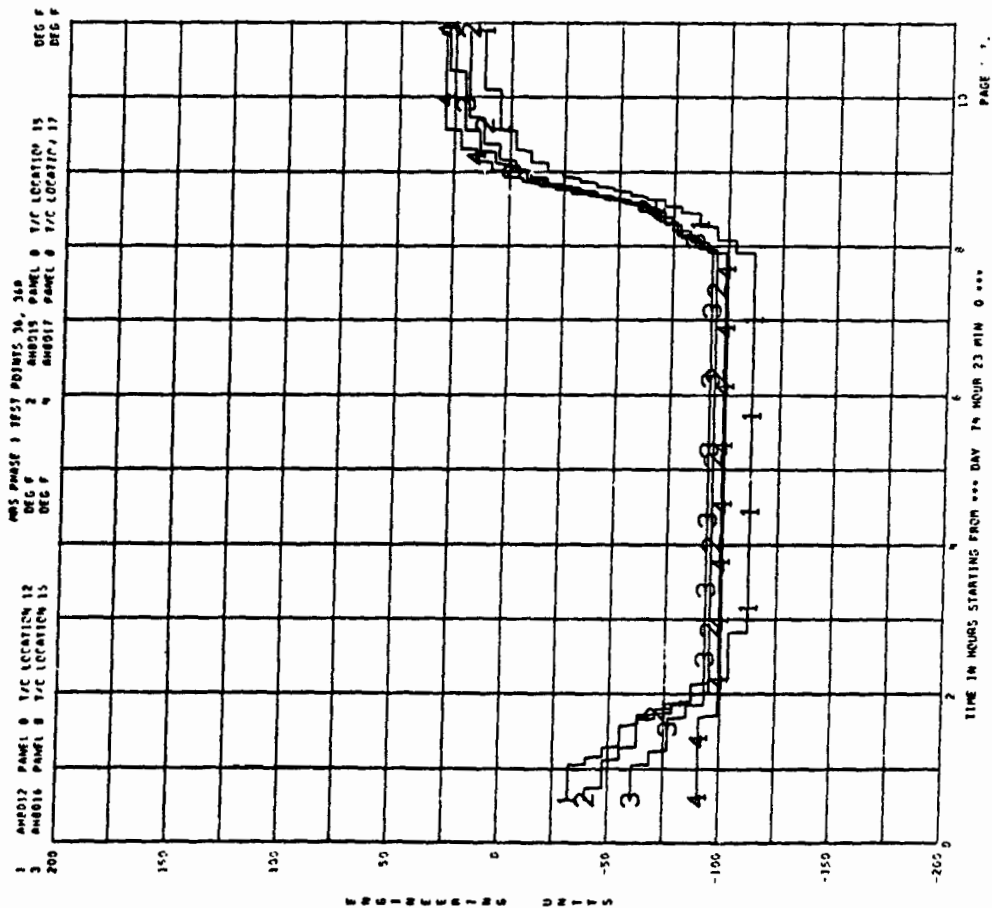




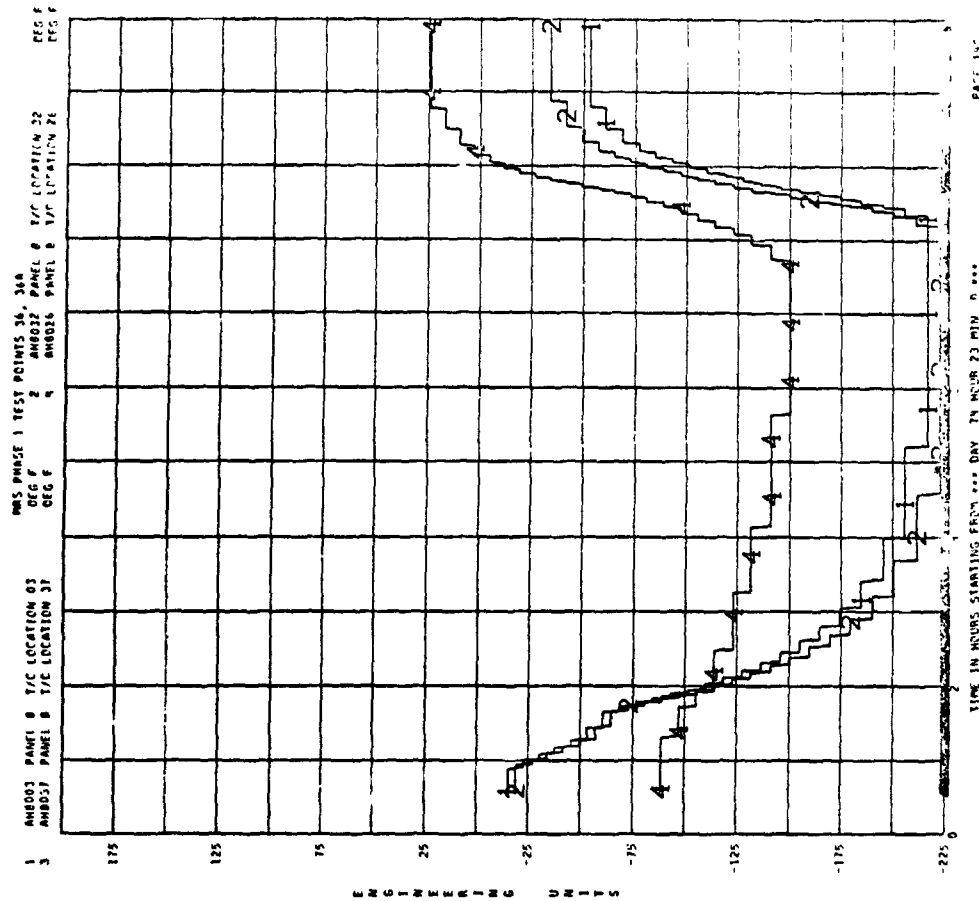
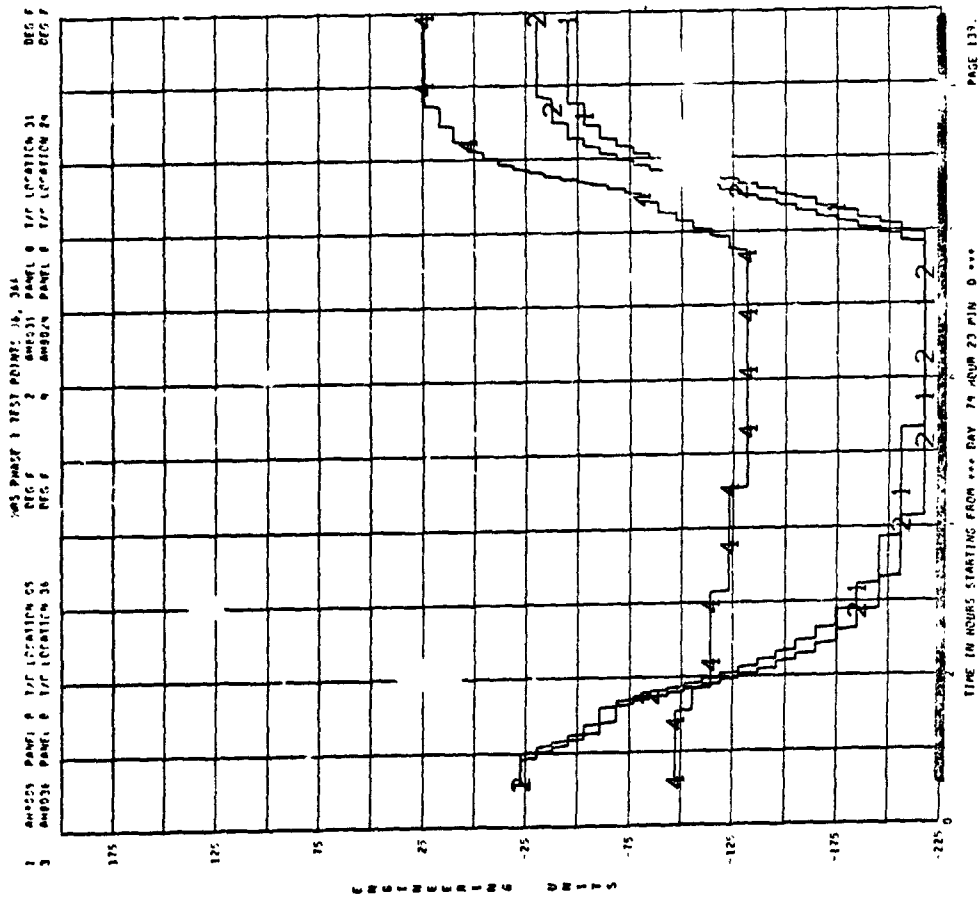


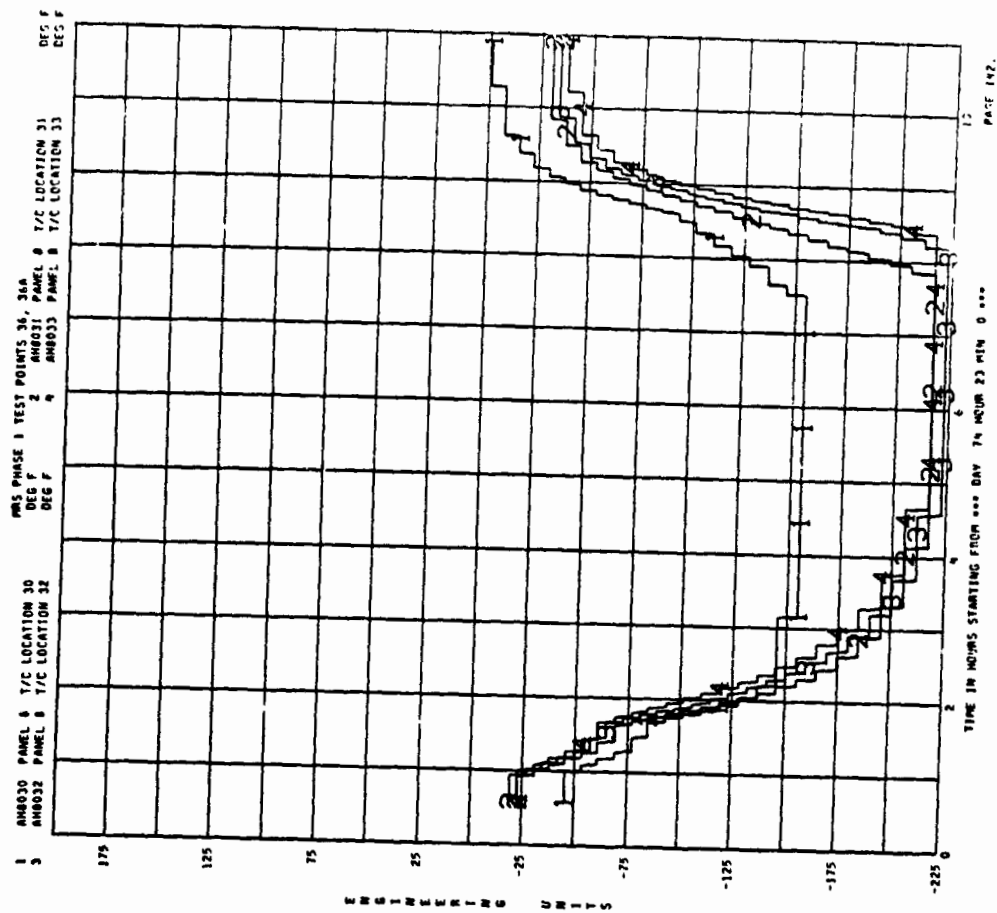
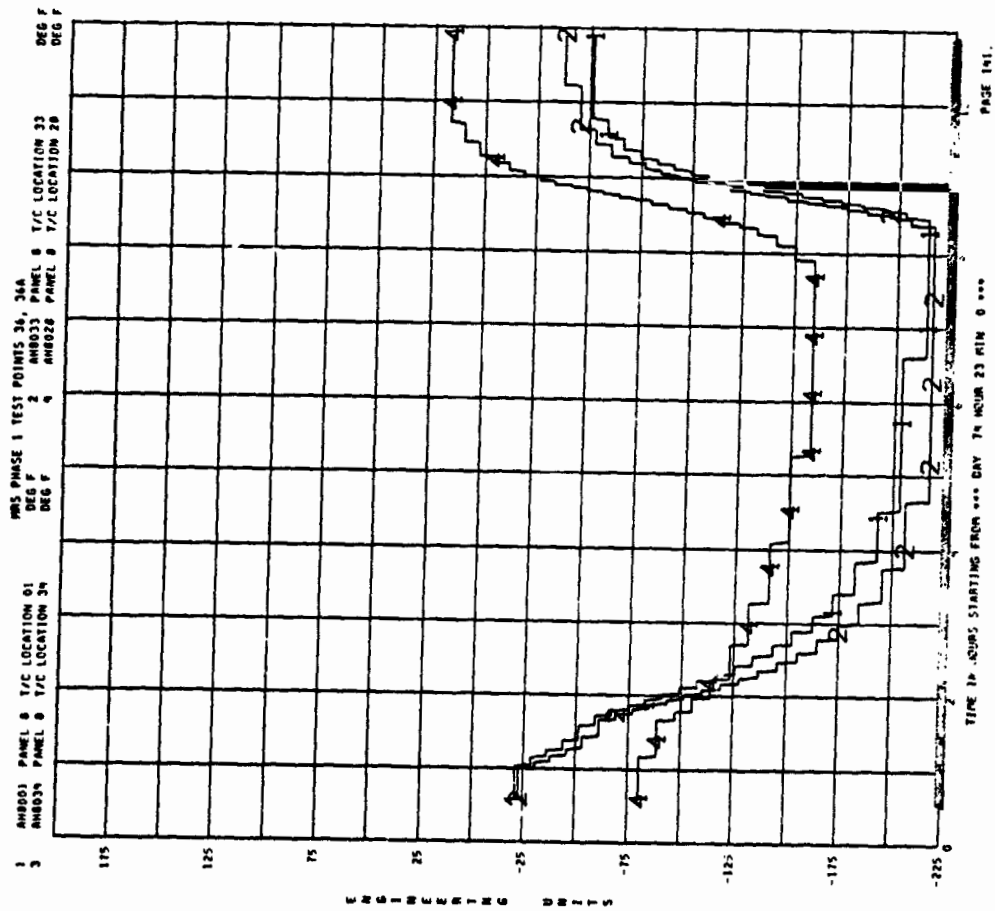


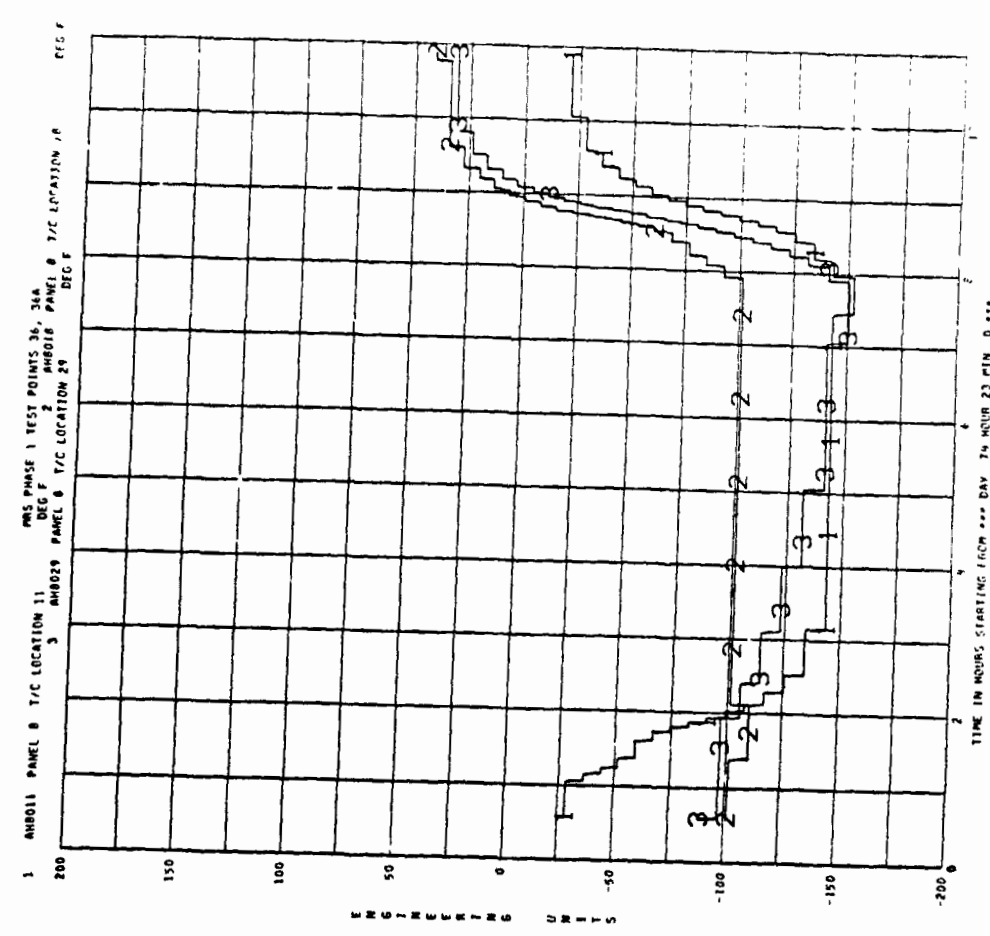
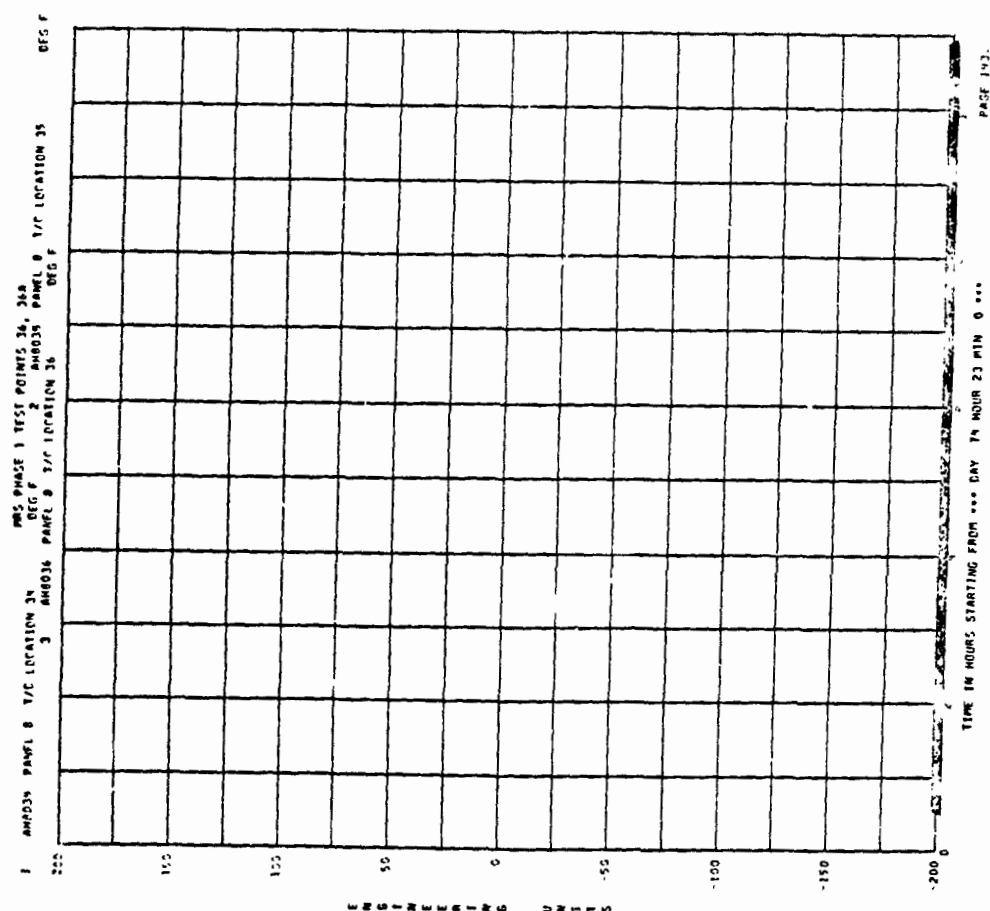










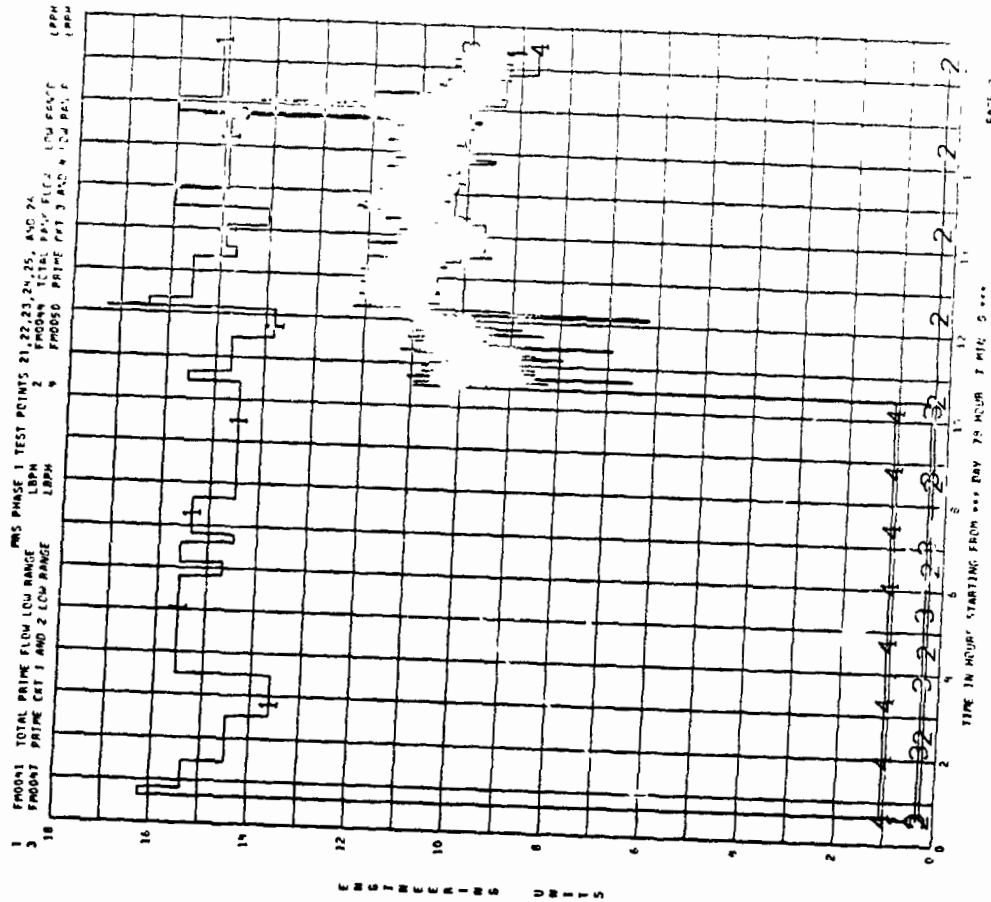
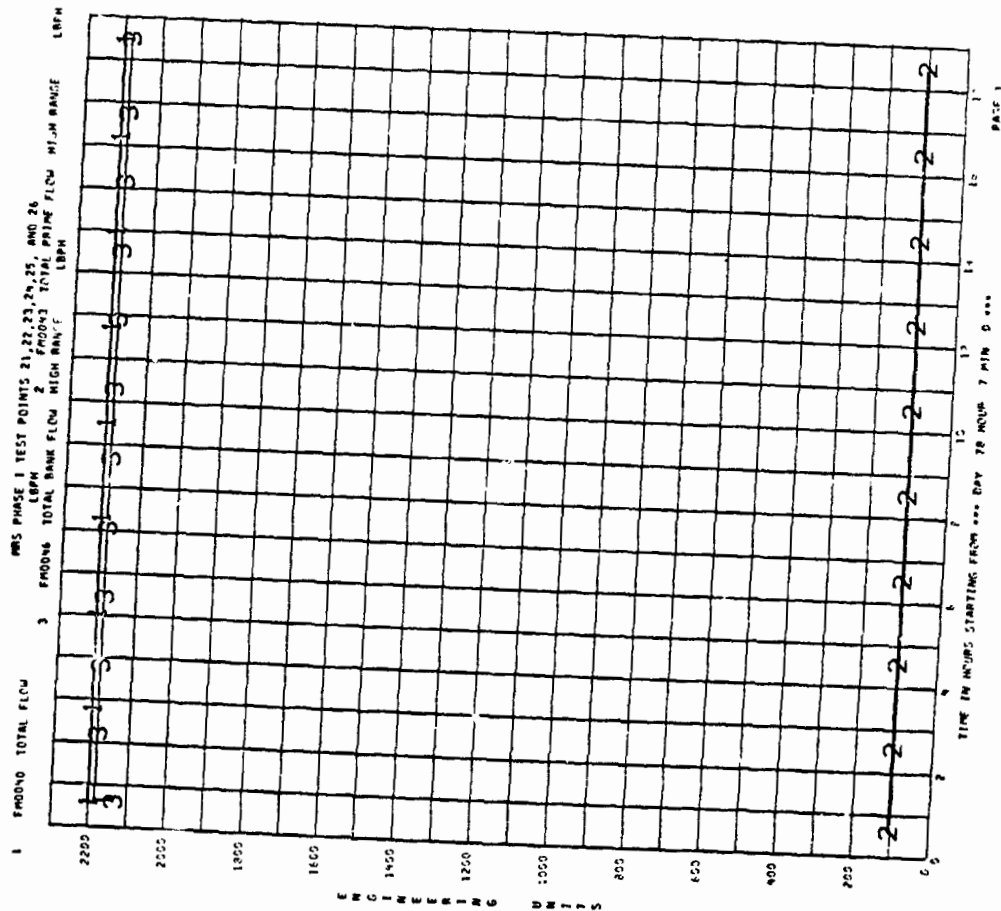


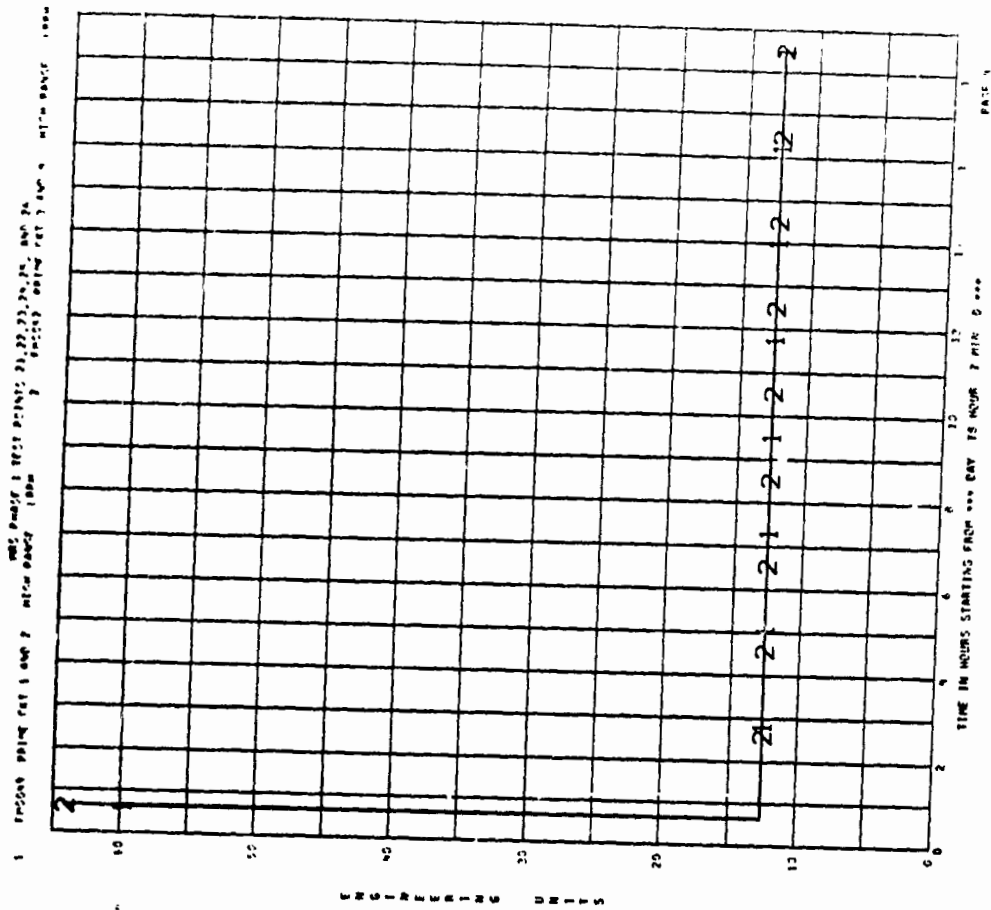
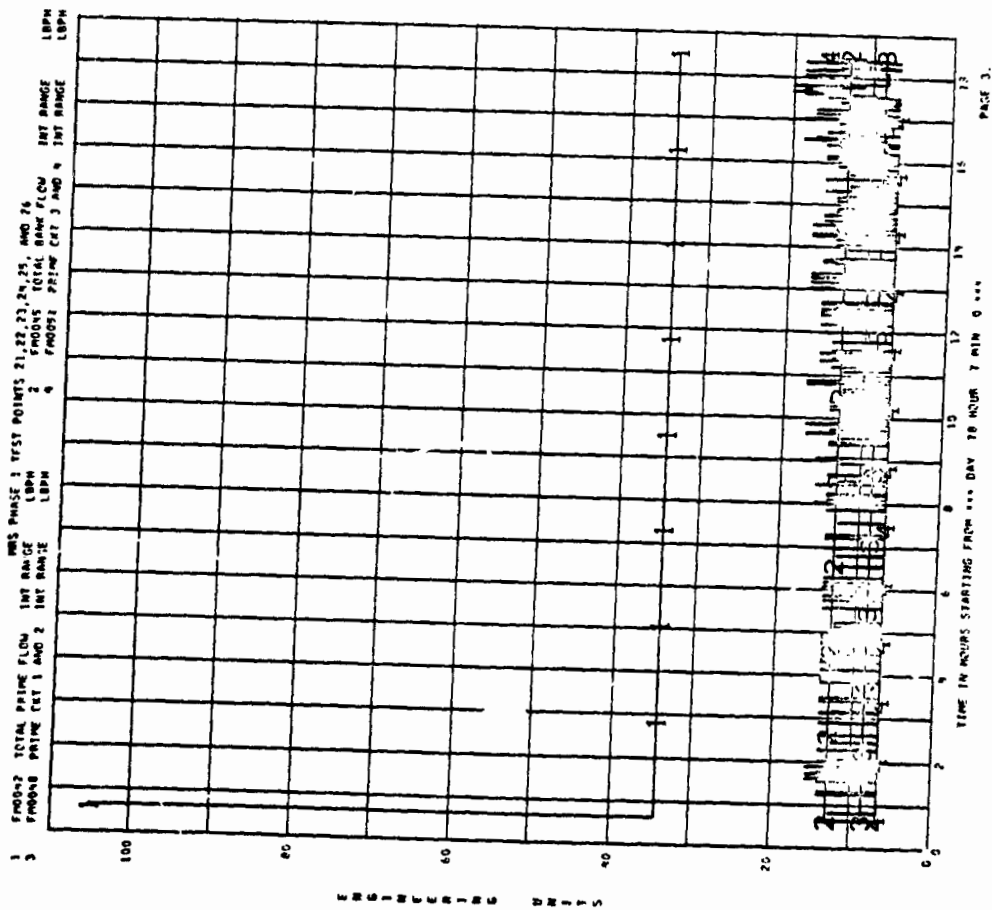
TEST GROUP I

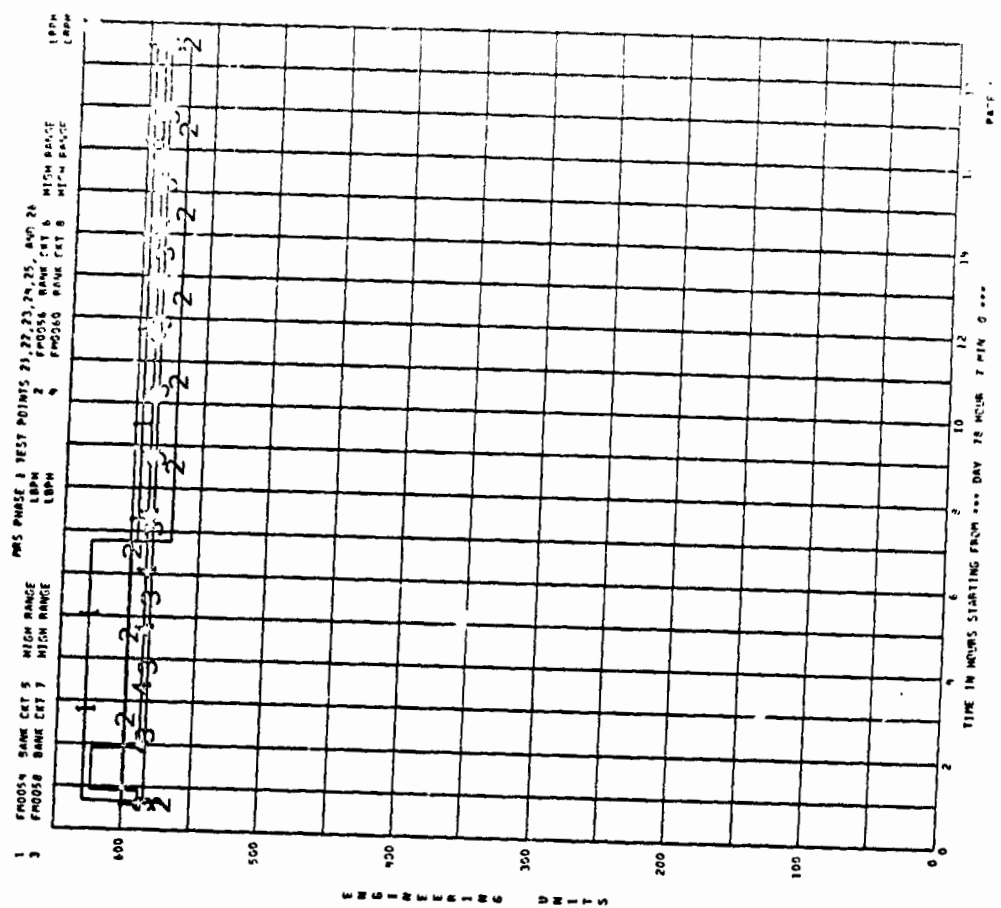
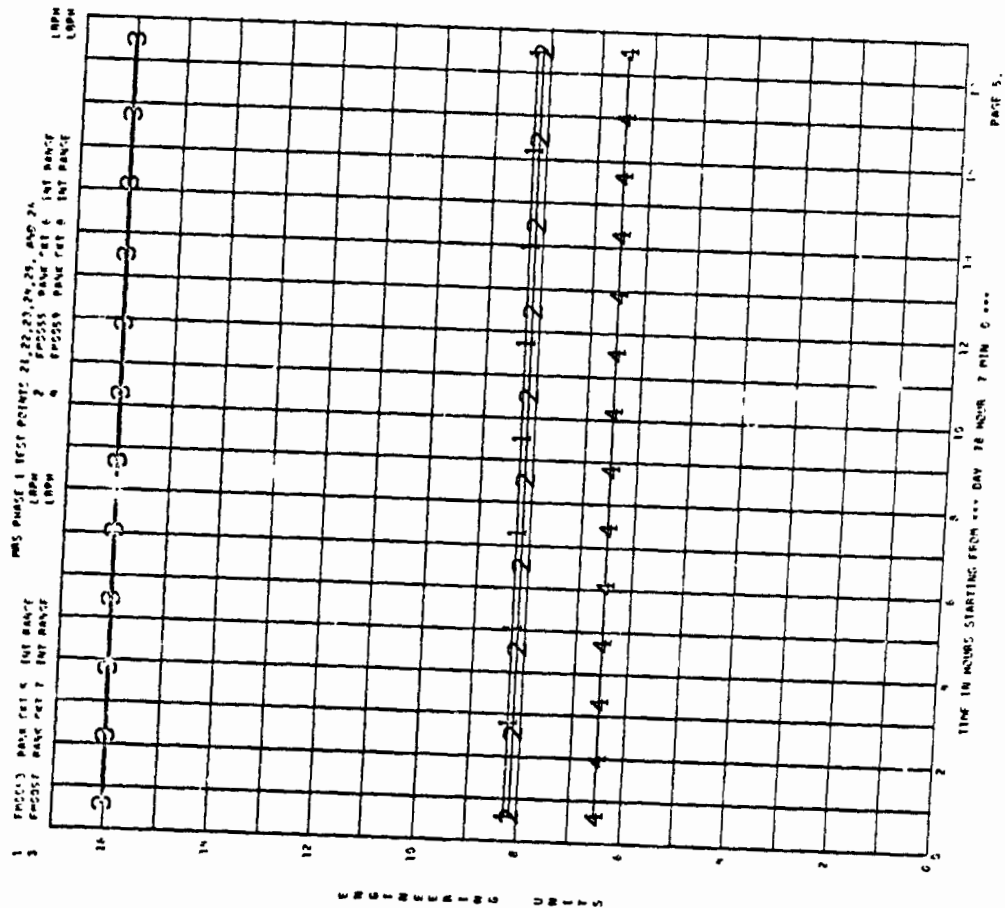
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INCLUDES TEST POINTS

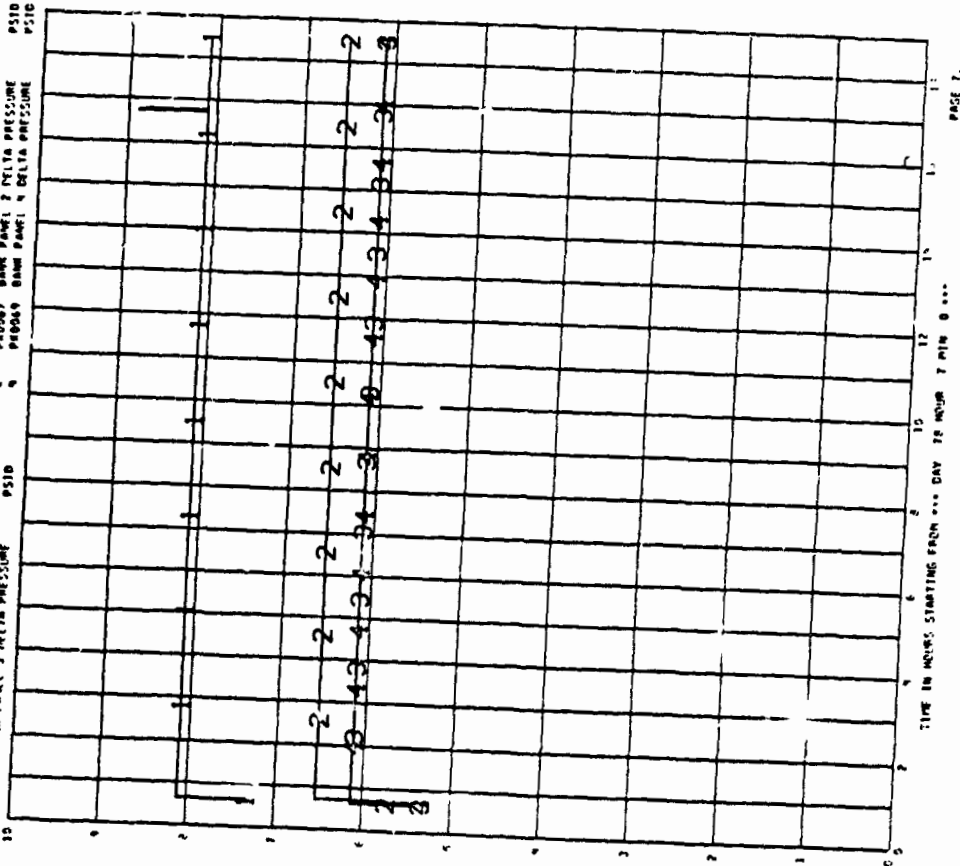
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25  
26







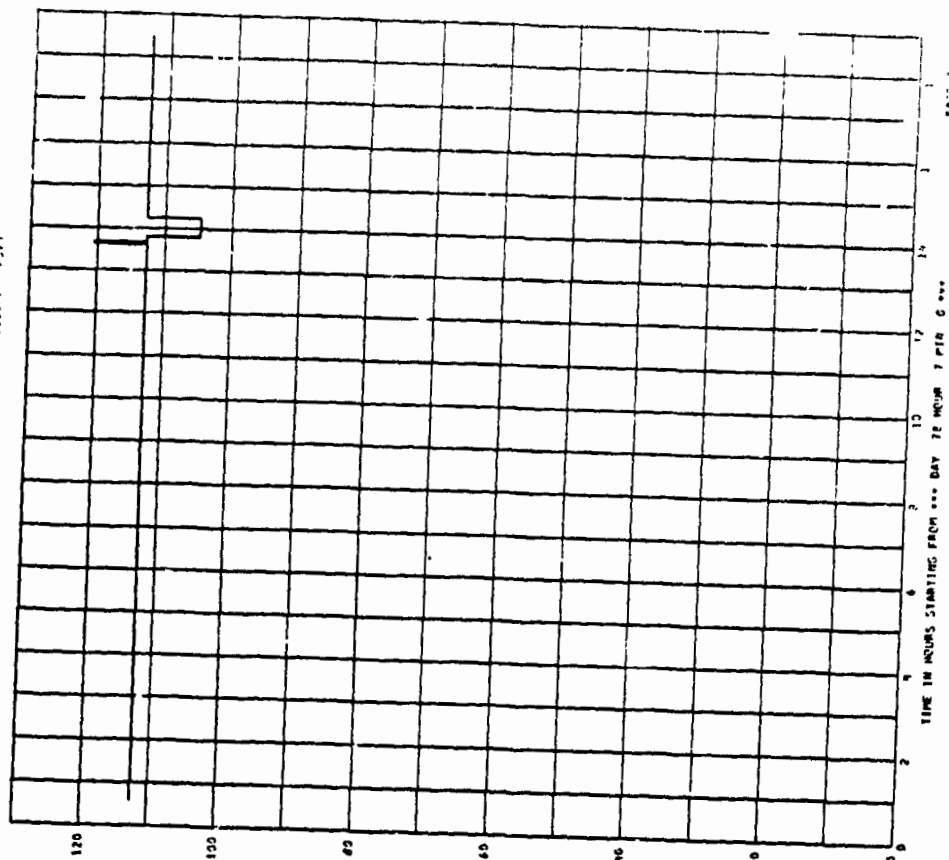
1 PRO004 BAYE PANEL 1 DELTA PRESSURE PSID  
 2 PRO007 BAYE PANEL 2 DELTA PRESSURE PSID  
 3 PRO008 BAYE PANEL 3 DELTA PRESSURE PSID  
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 5 PRO010 BAYE PANEL 5 DELTA PRESSURE PSID



DELTA PRESSURE PSID

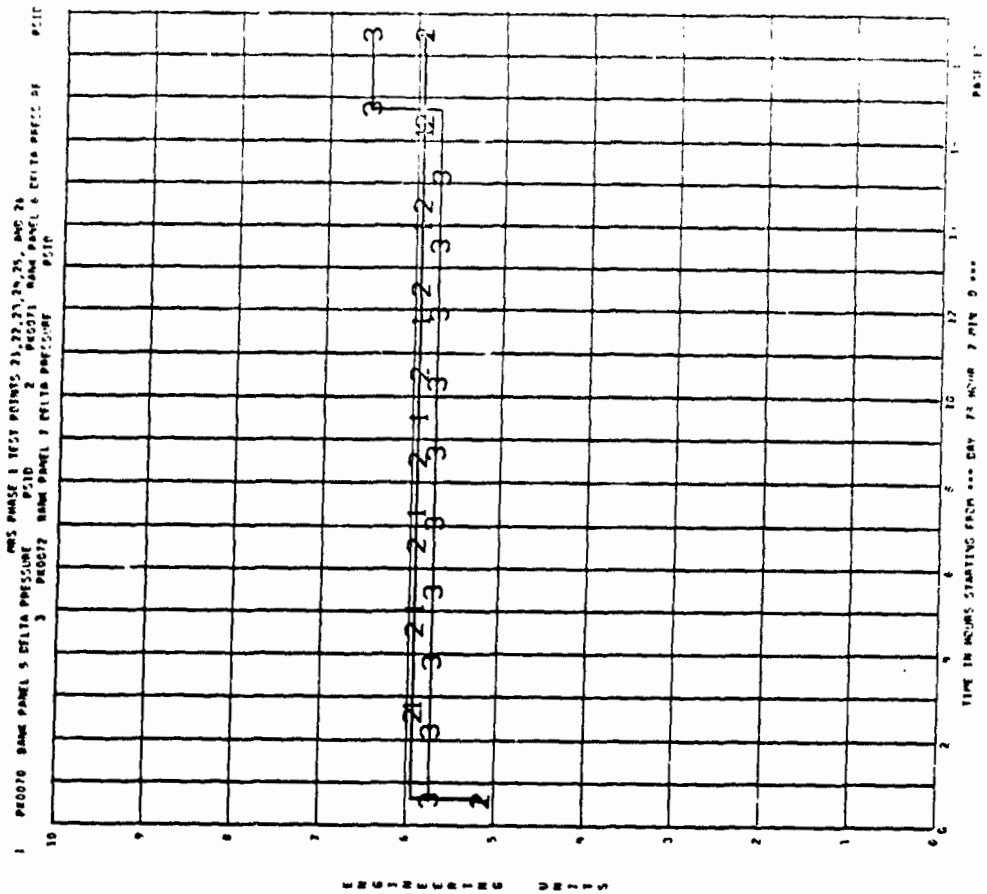
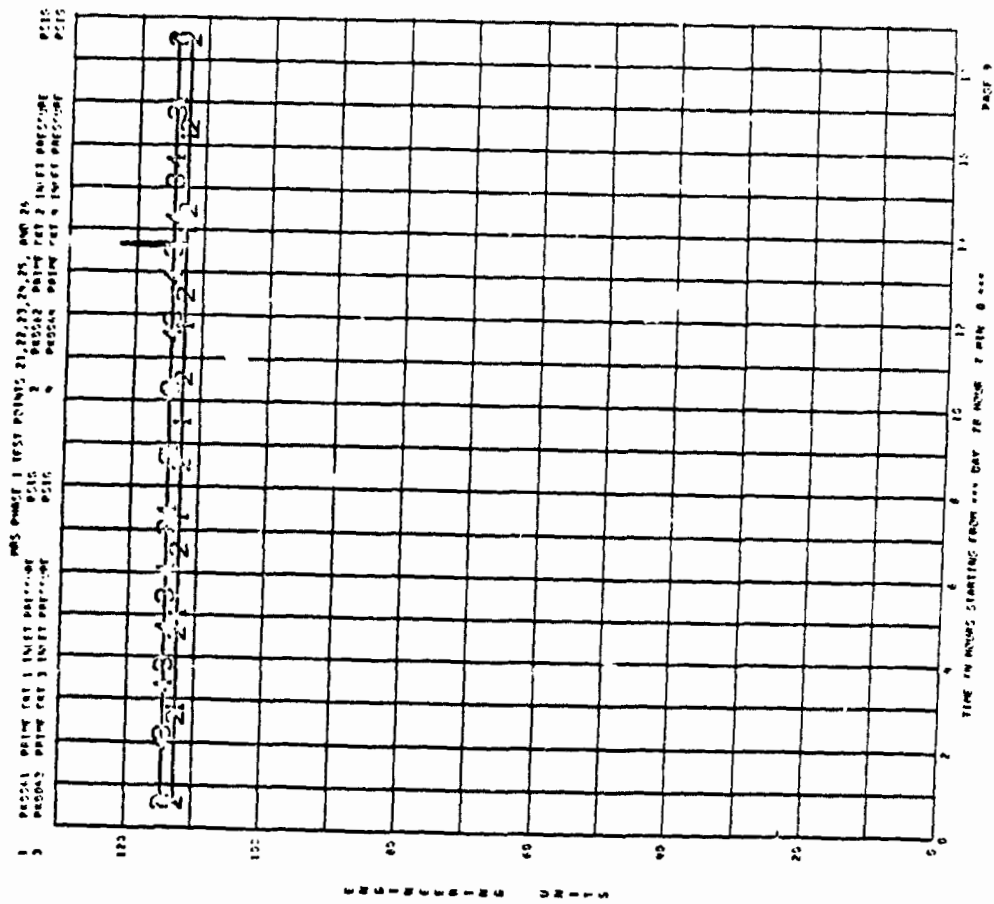
PAGE 7.

1 PRO005 BAYE PANEL 1 DELTA PRESSURE PSID  
 2 PRO006 BAYE PANEL 2 DELTA PRESSURE PSID  
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 4 PRO008 BAYE PANEL 4 DELTA PRESSURE PSID  
 5 PRO009 BAYE PANEL 5 DELTA PRESSURE PSID

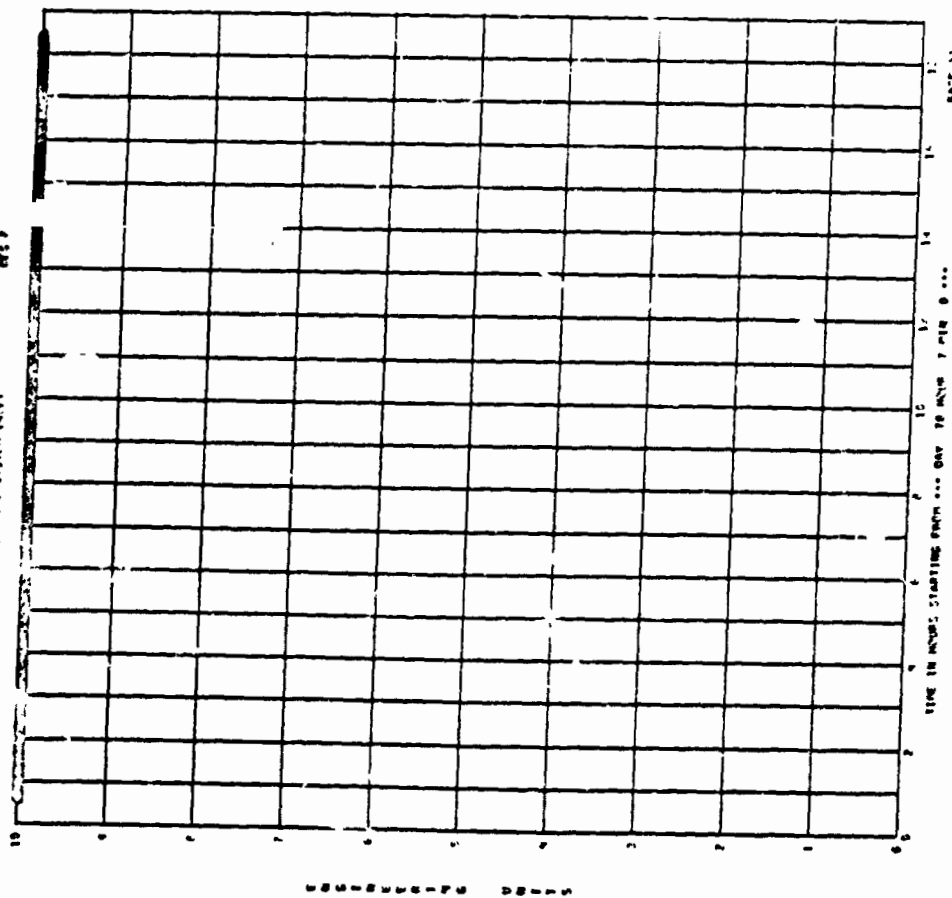


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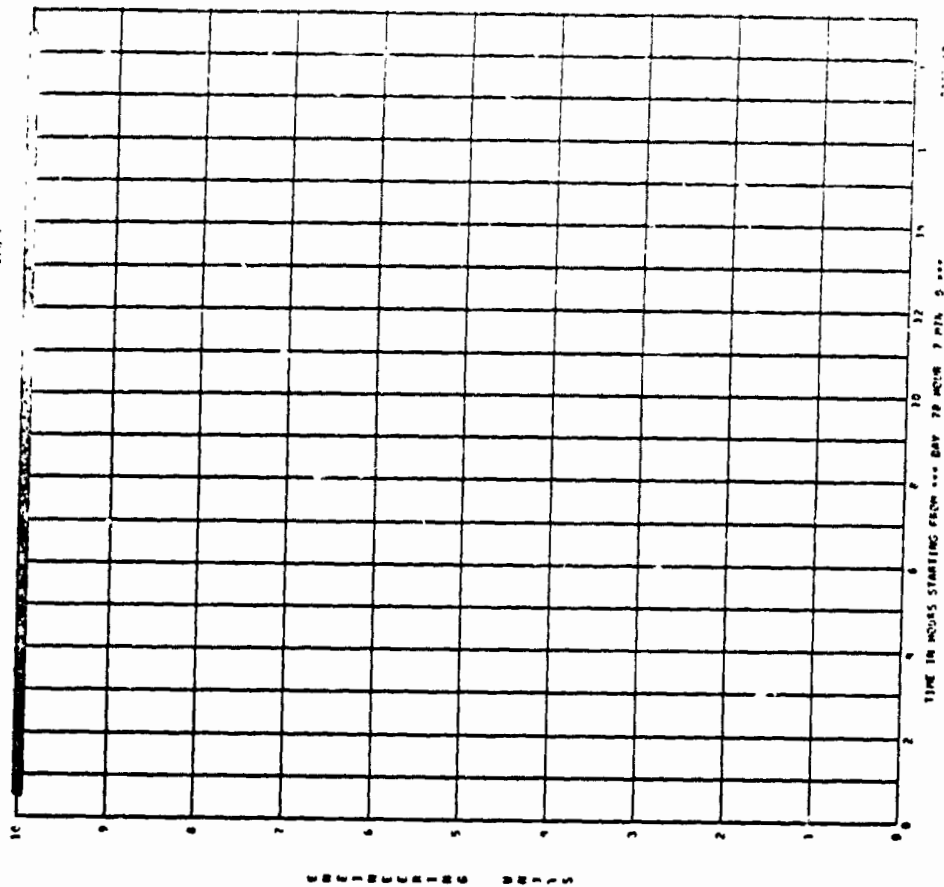


PHASE 1 TEST POINTS 21, 22, 23, 24, 25, AND 26  
 1 010002 DAM SYSTEM TEST  
 PG 2



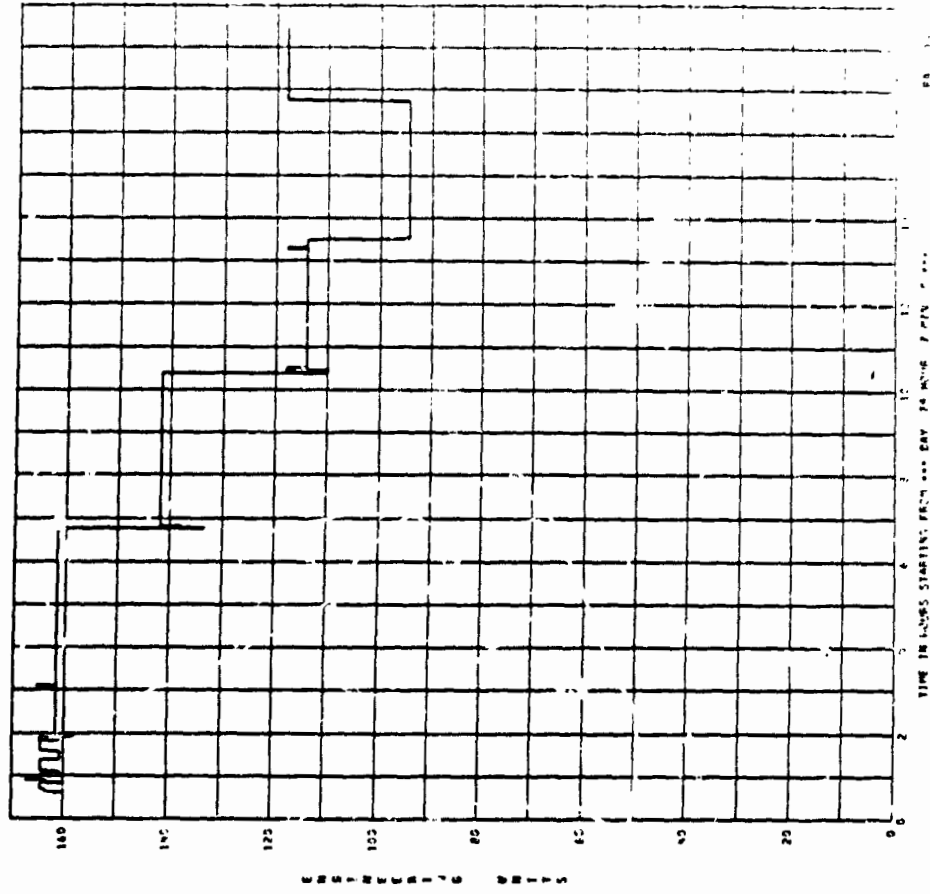
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PHASE 1 TEST POINTS 21, 22, 23, 24, 25, AND 26  
 1 010002 DAM SYSTEM TEST  
 PG 2

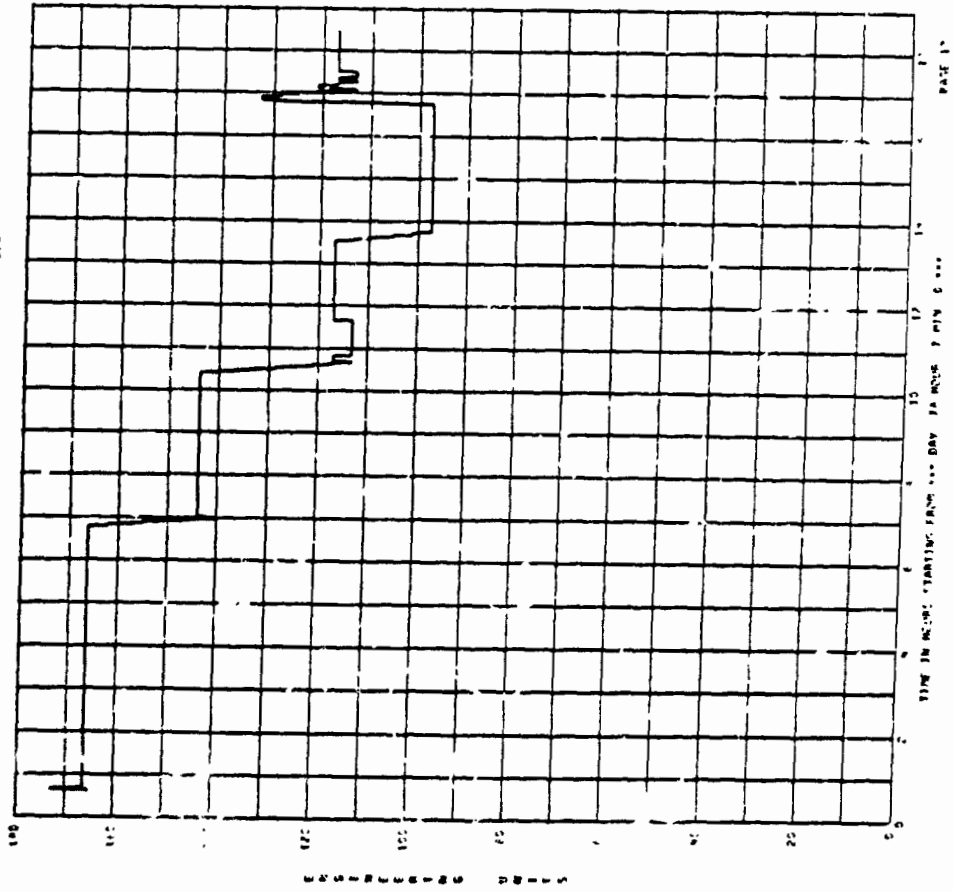


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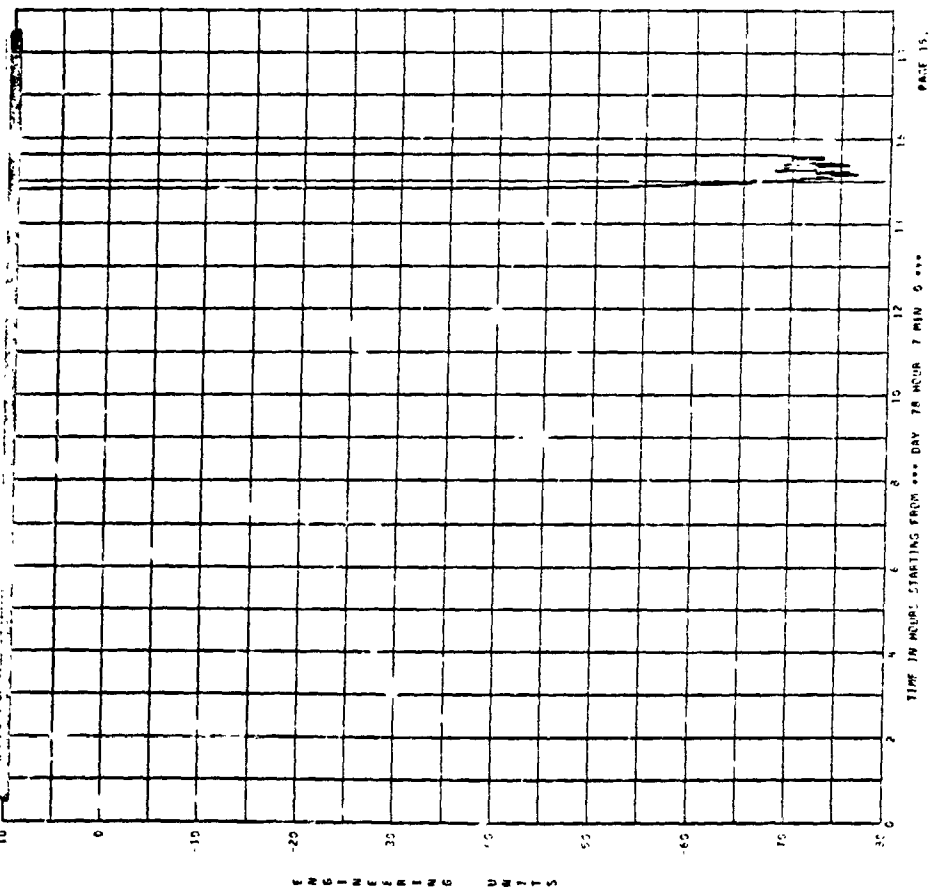
1. RMS POWER 1 TEST POINTS 21, 22, 23, 24, 25, 26  
 2. AFFECT FROM SYSTEM IMPACT



1. RMS POWER 1 TEST POINTS 21, 22, 23, 24, 25, 26  
 2. AFFECT FROM SYSTEM IMPACT

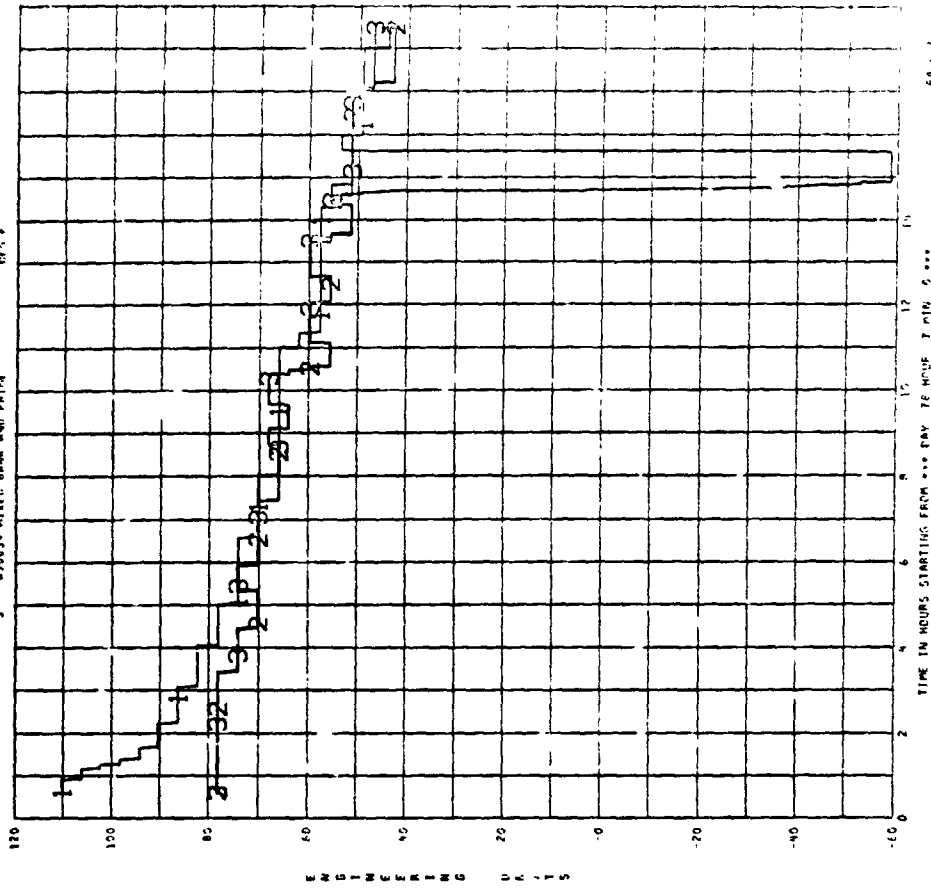


1 110019 PRIME TUBS OUTLET MIX IN CM DEG F 2 110036 BANG TUBS OUTLET MIX IN CM DEG F 3 110036 BANG TUBS OUTLET MIX IN CM DEG F

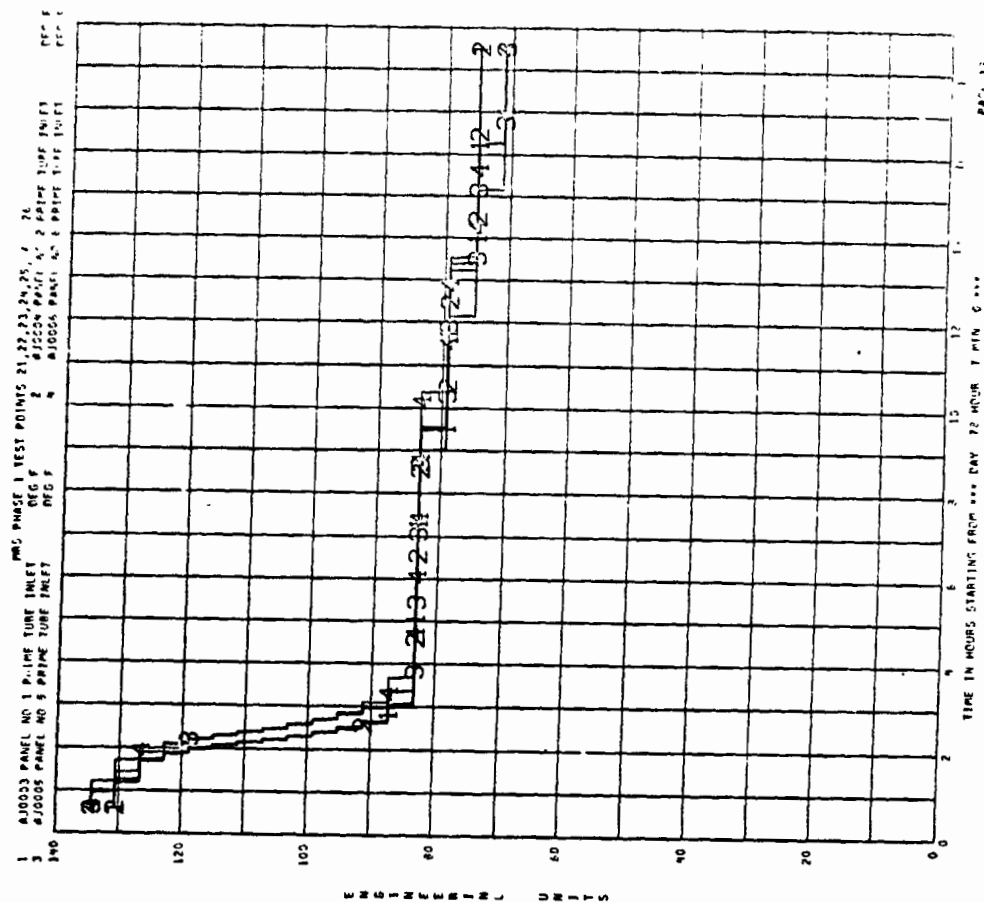
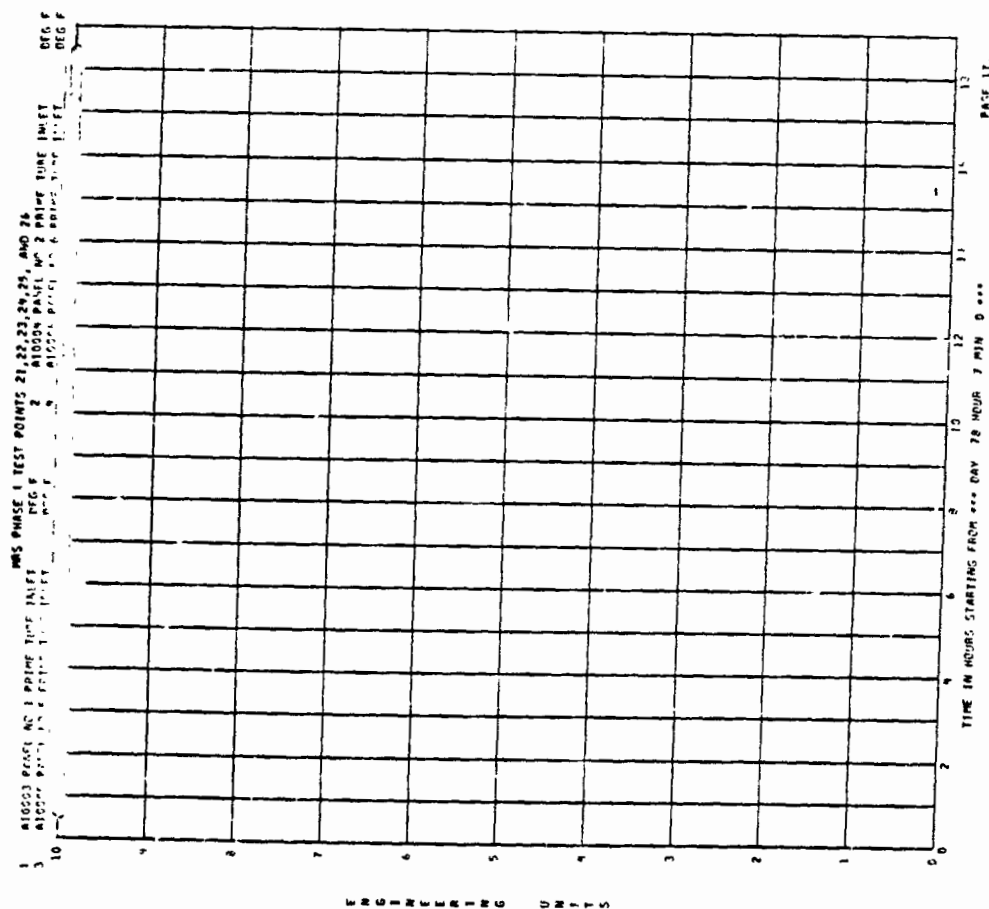


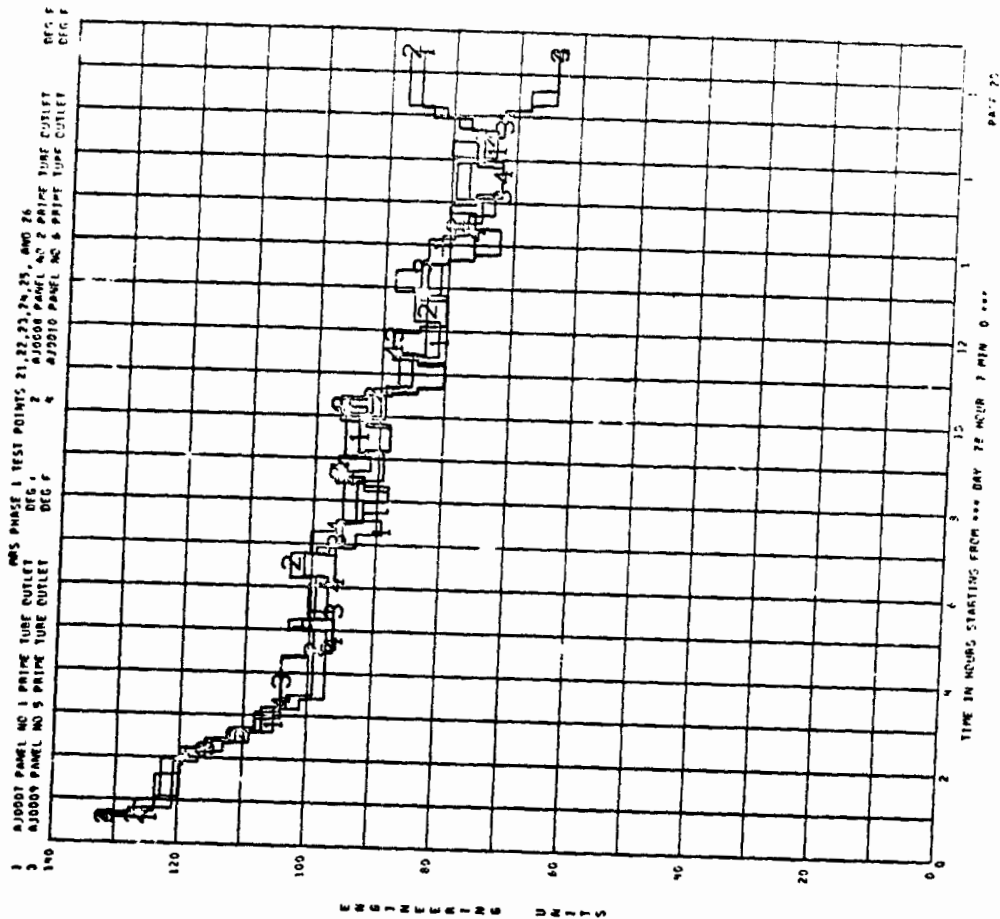
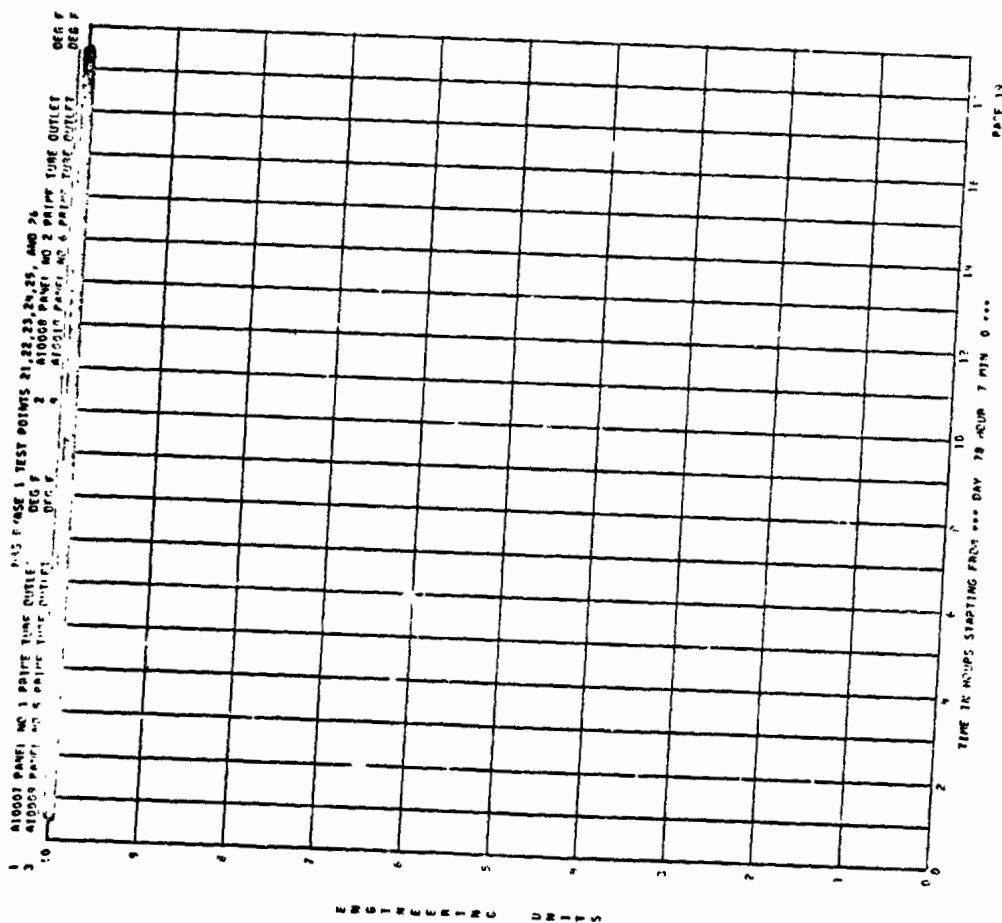
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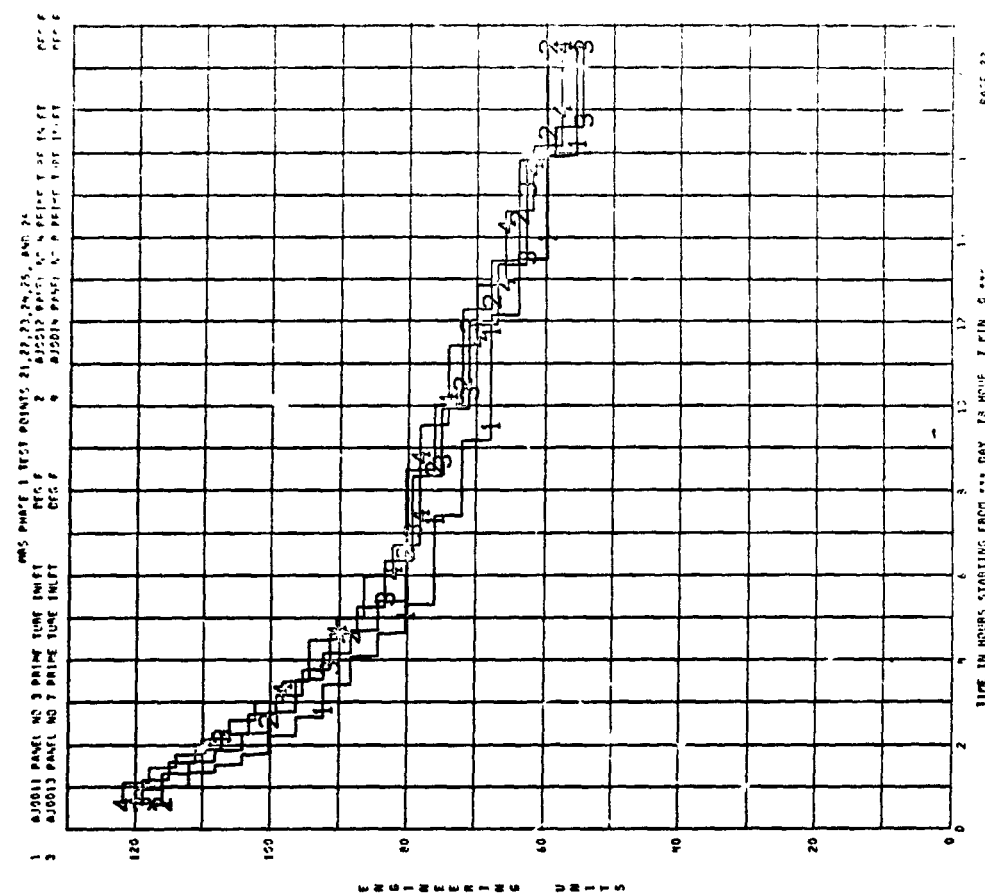
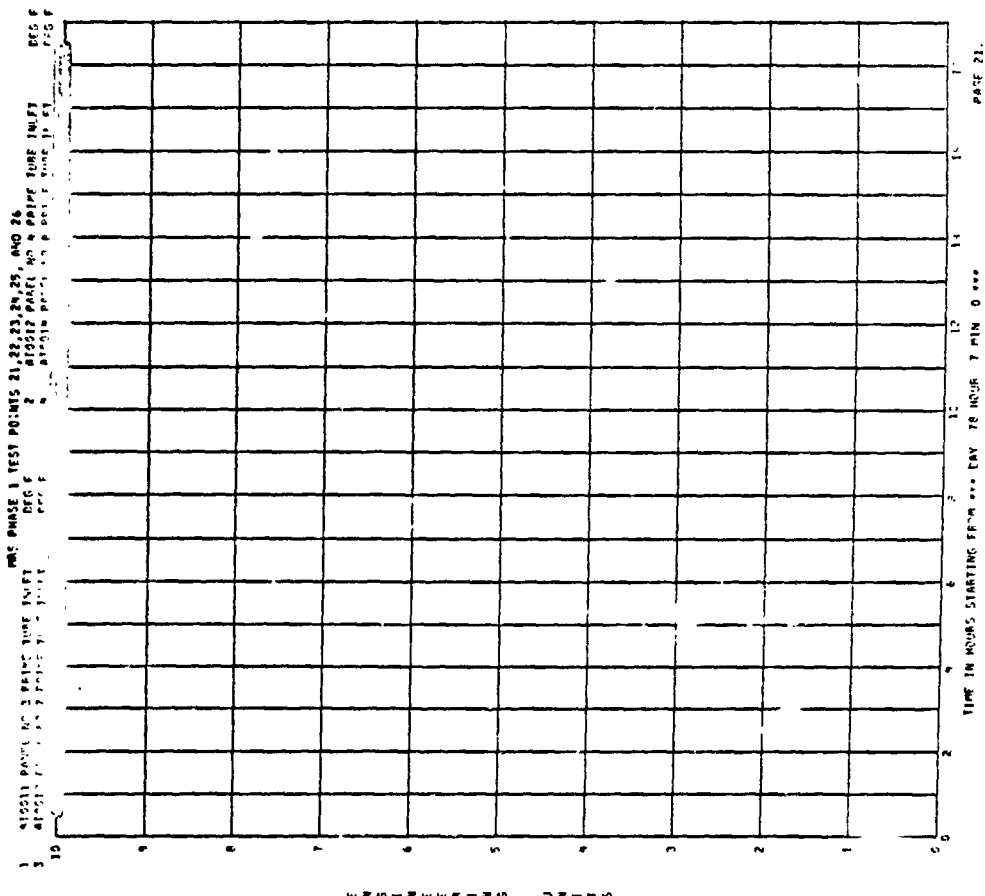
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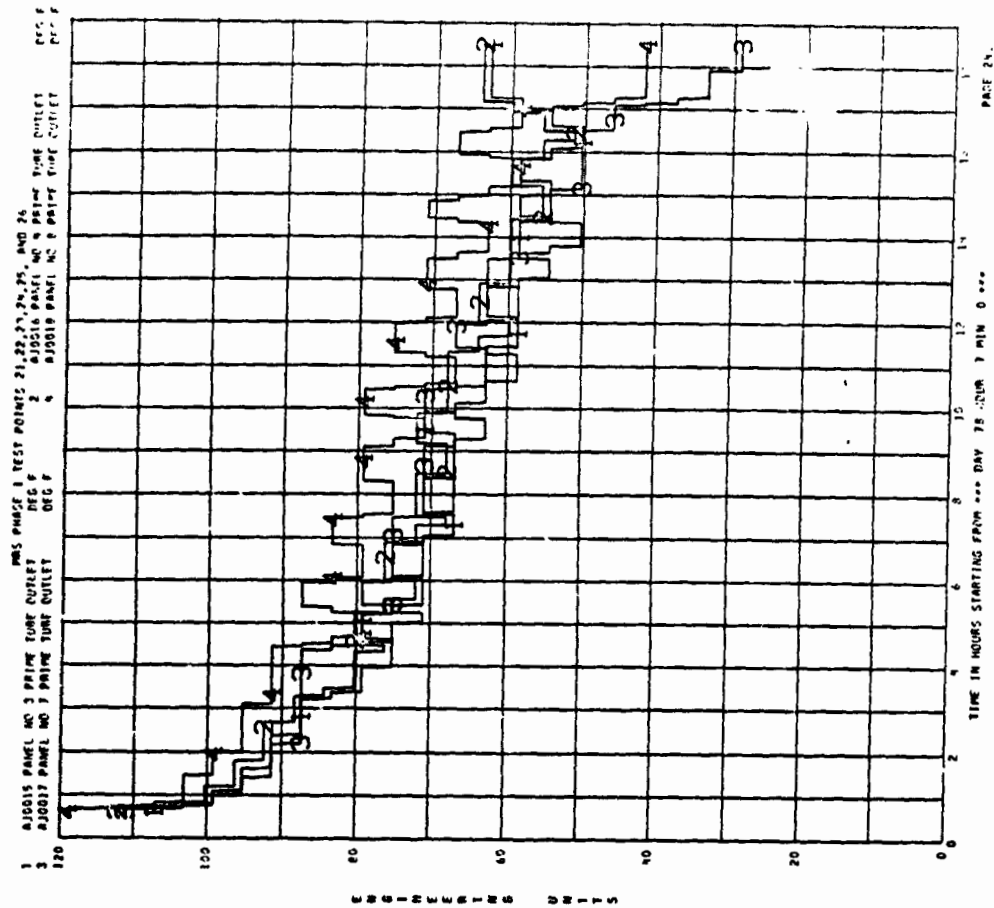
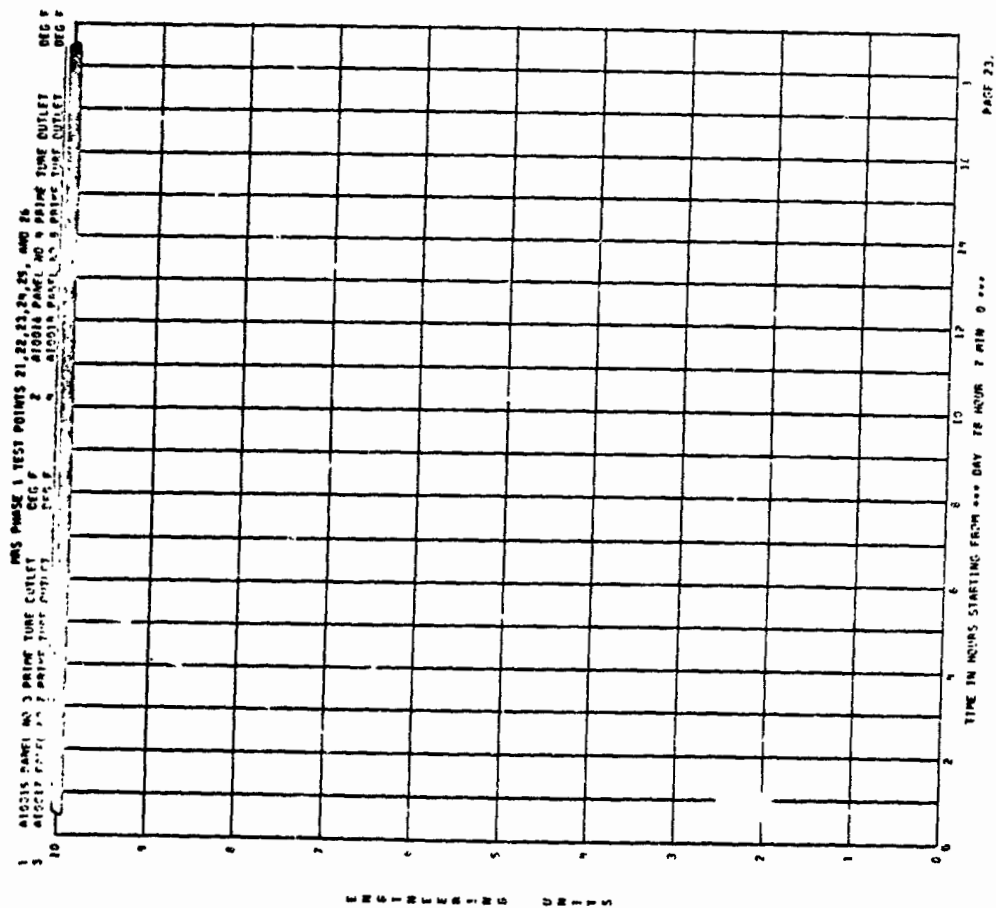


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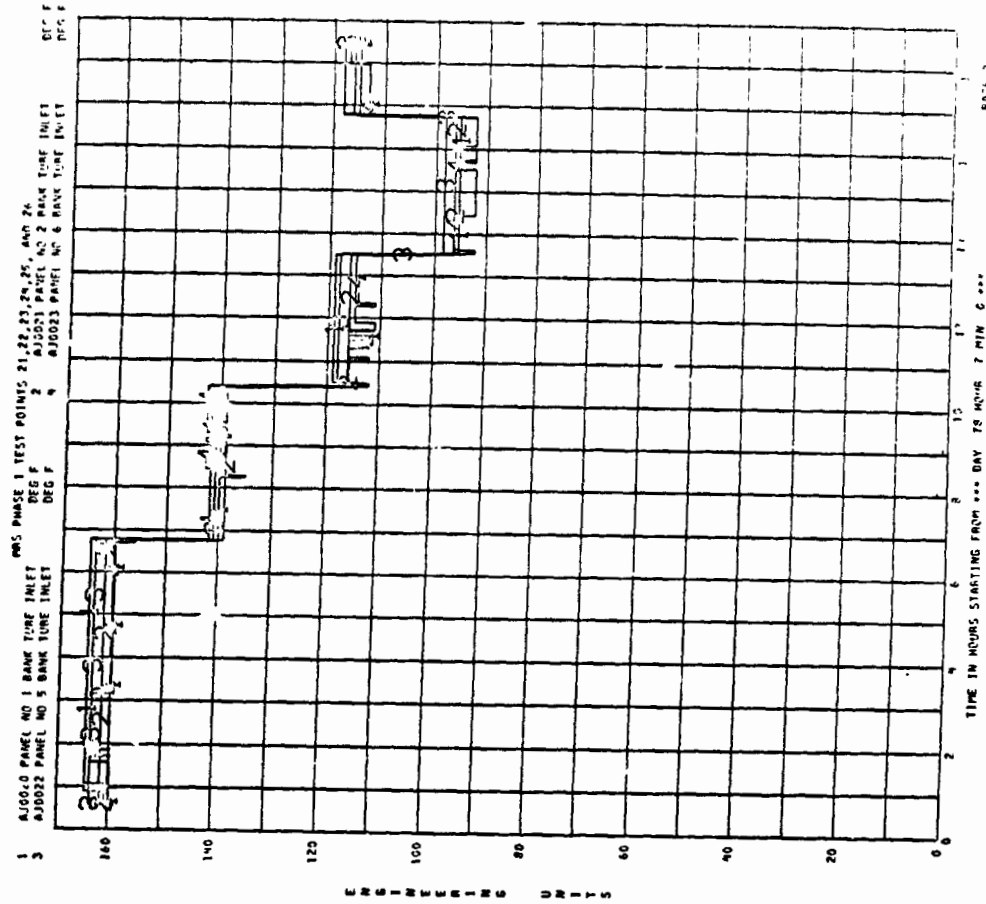
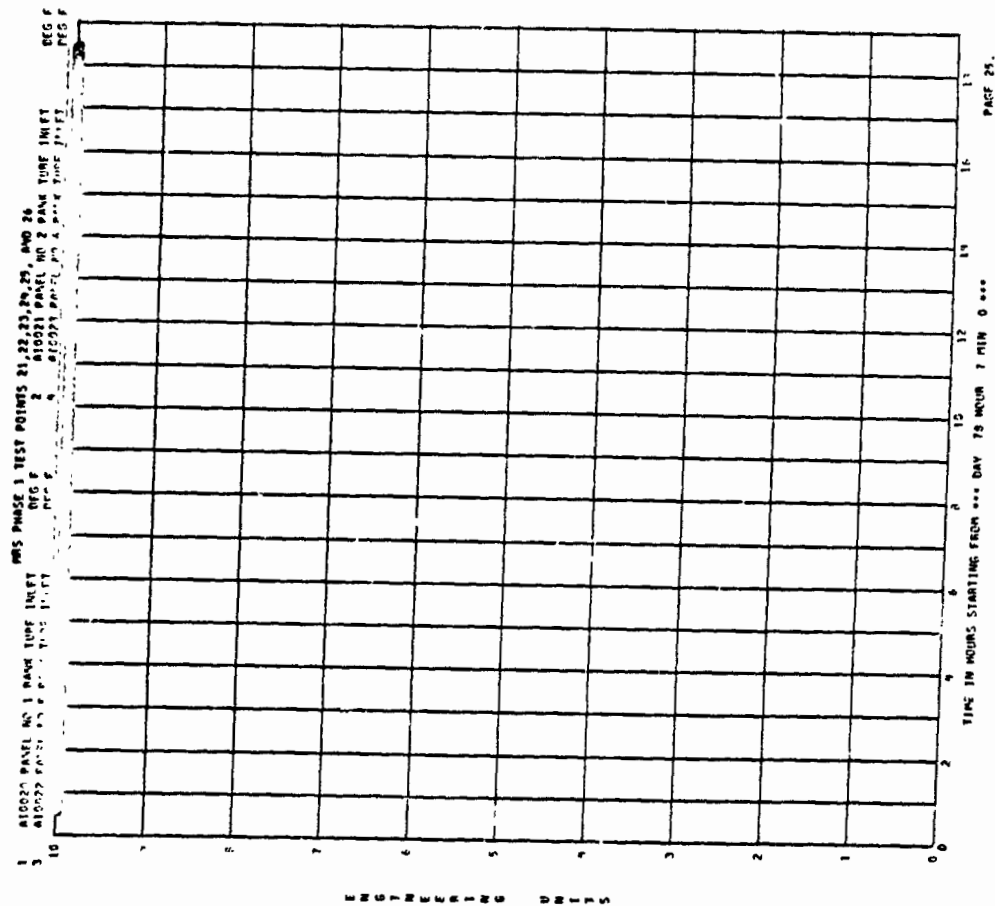


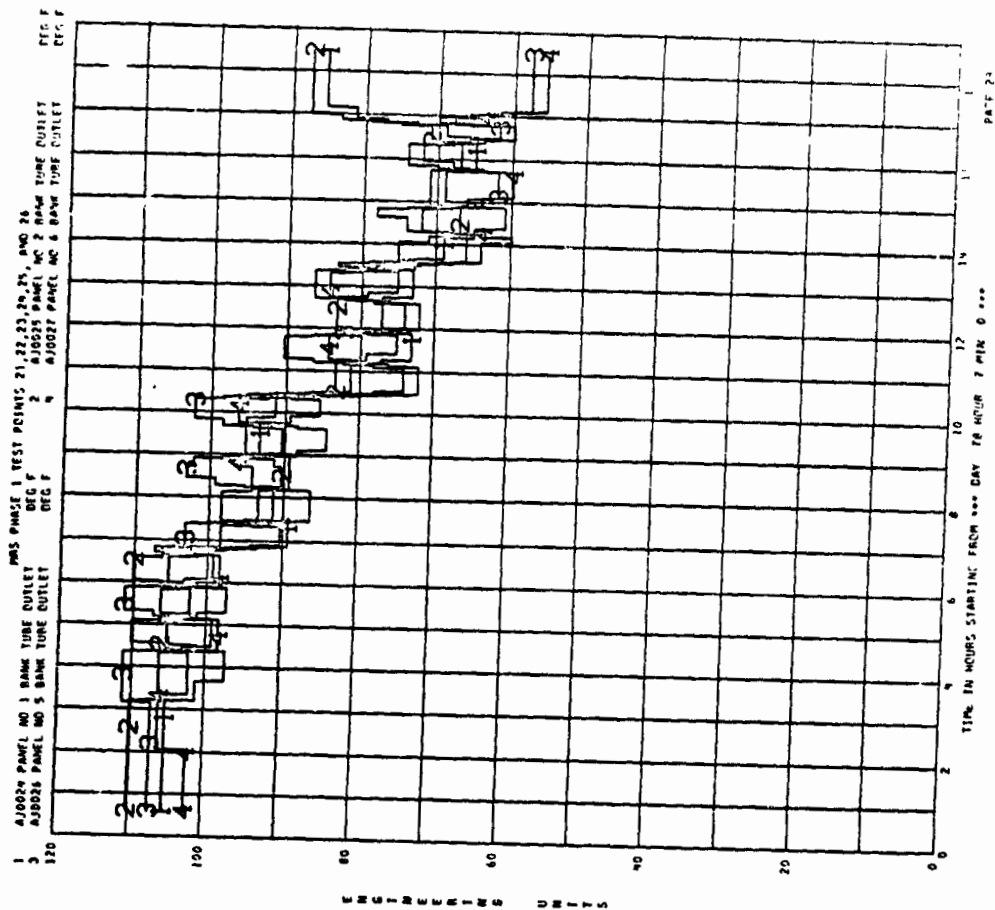
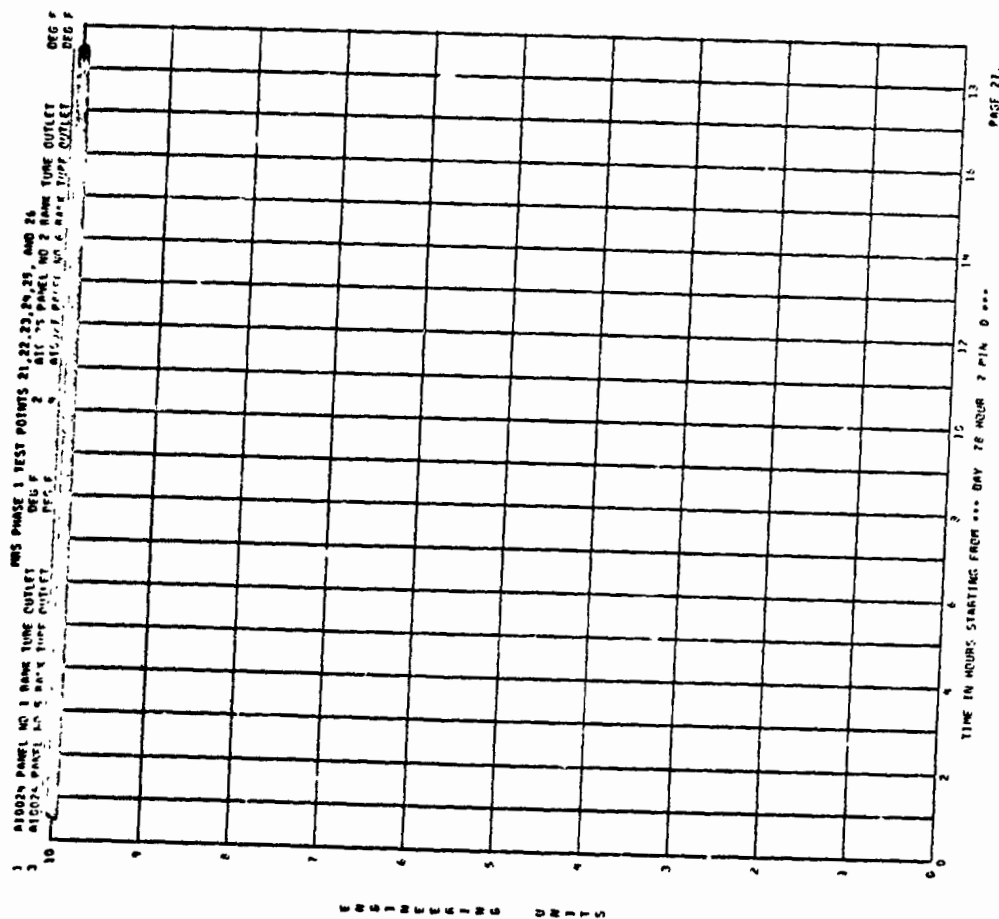


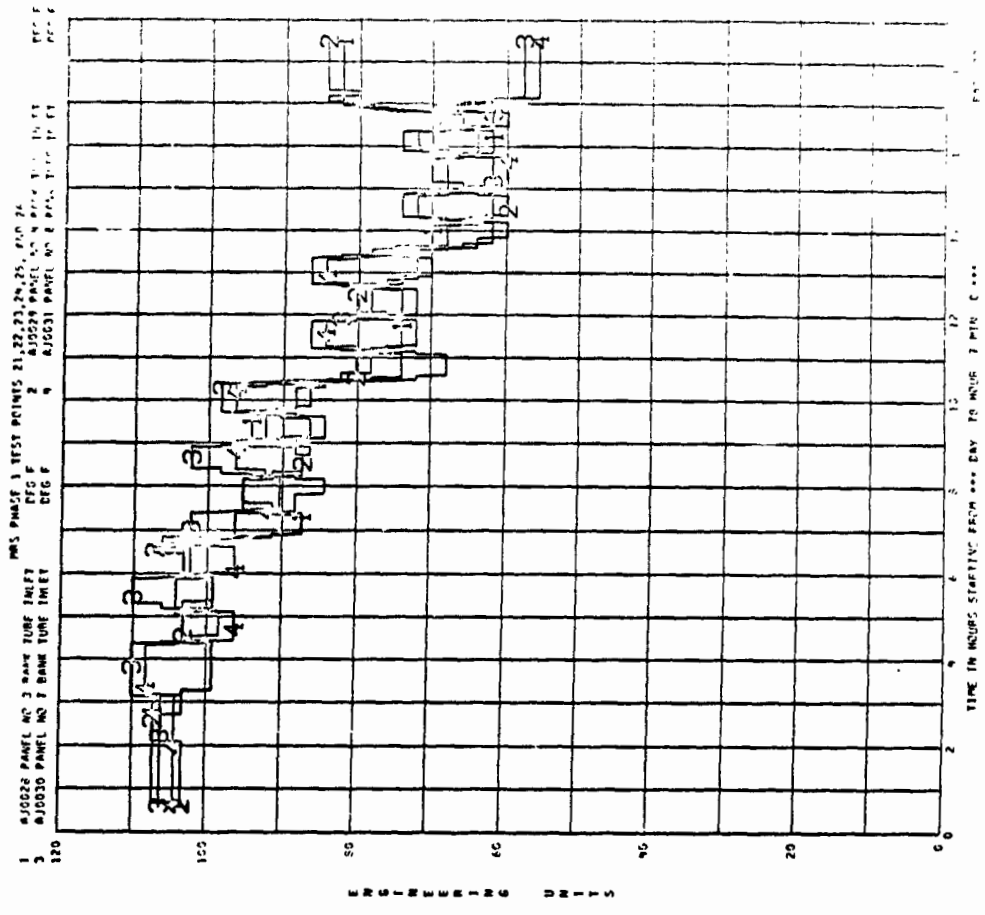
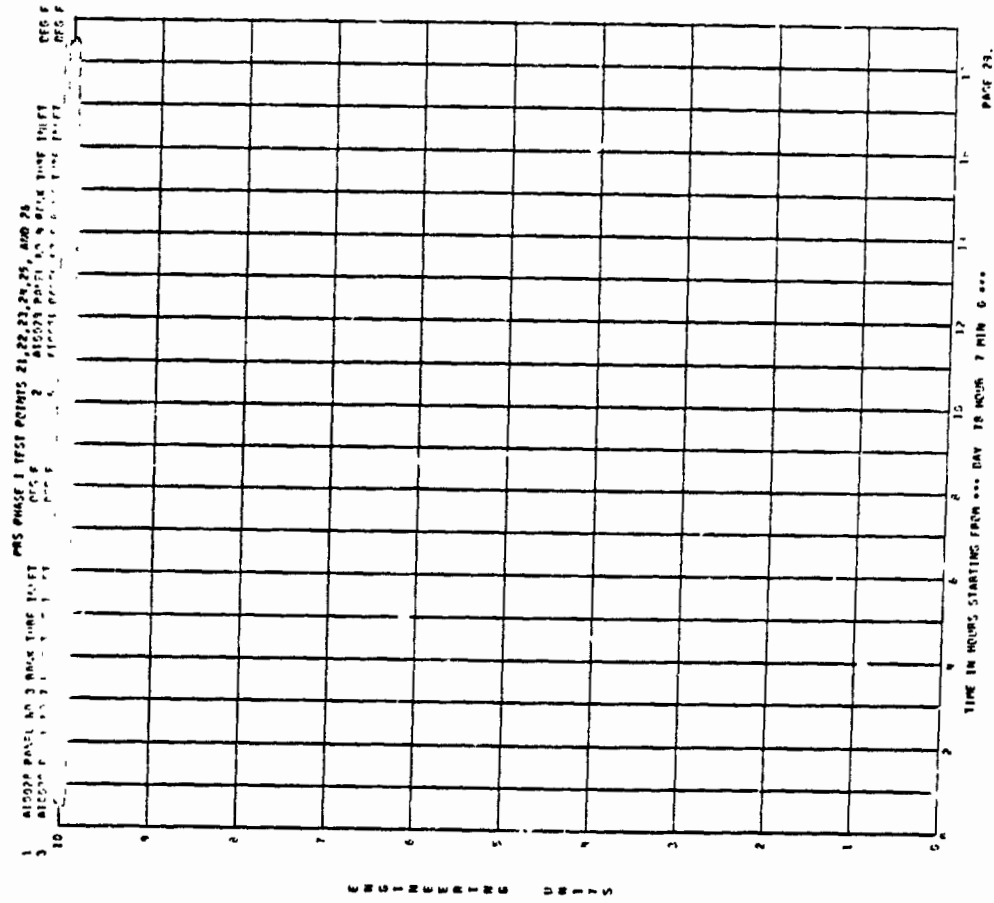


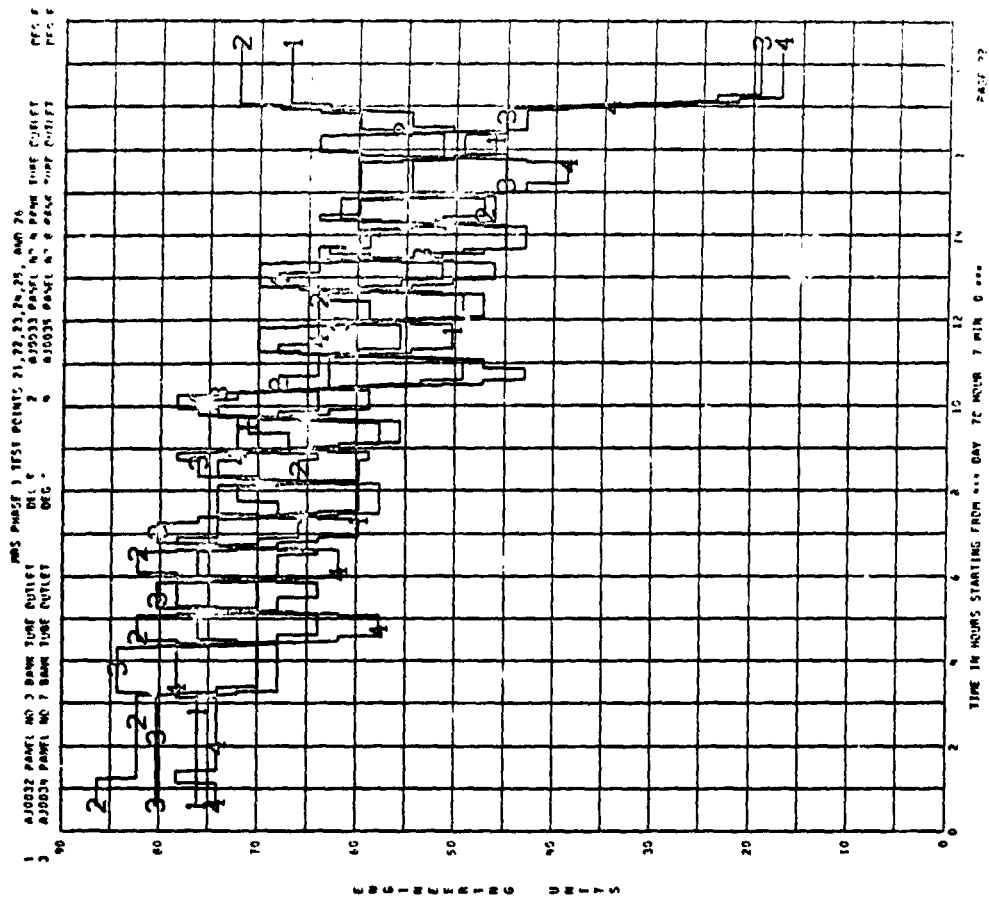
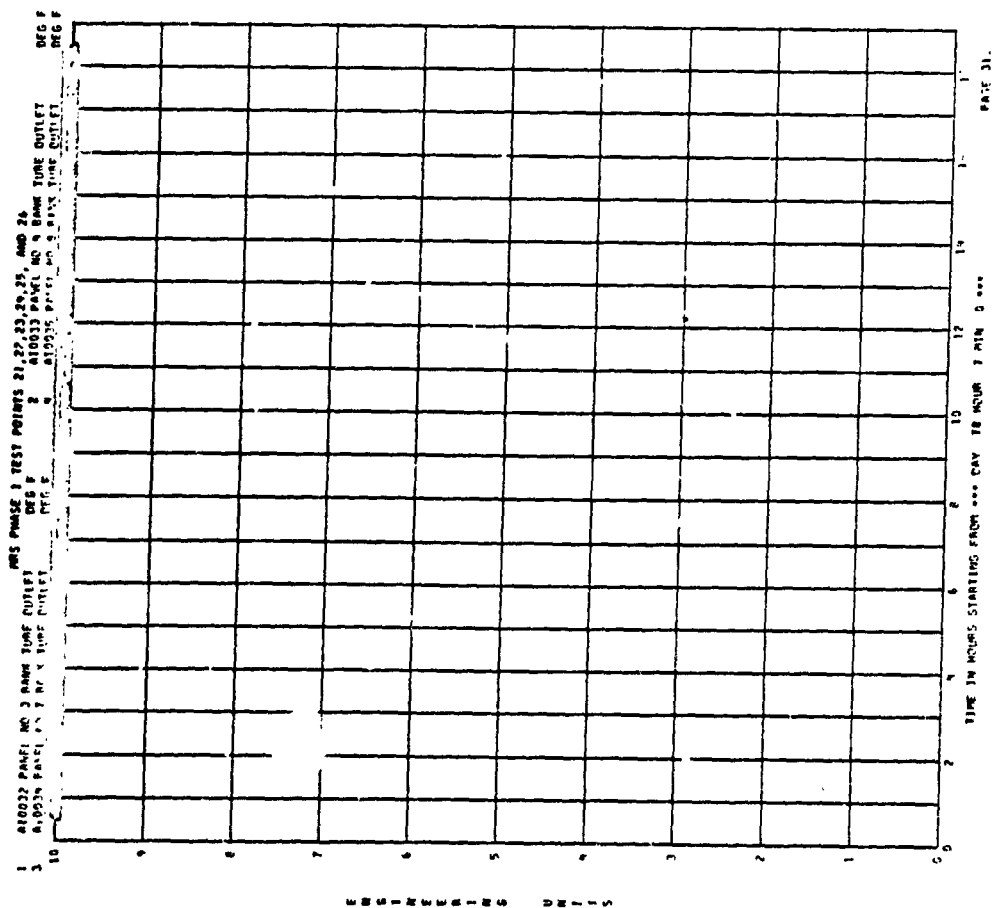


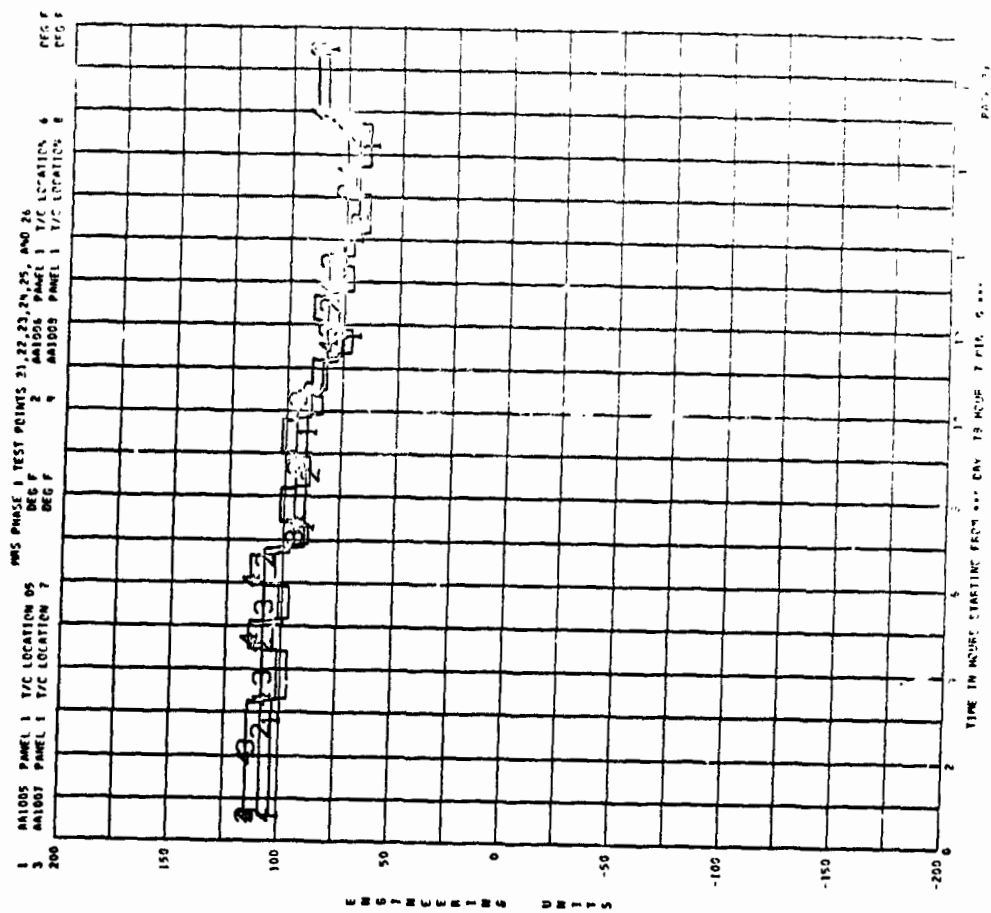
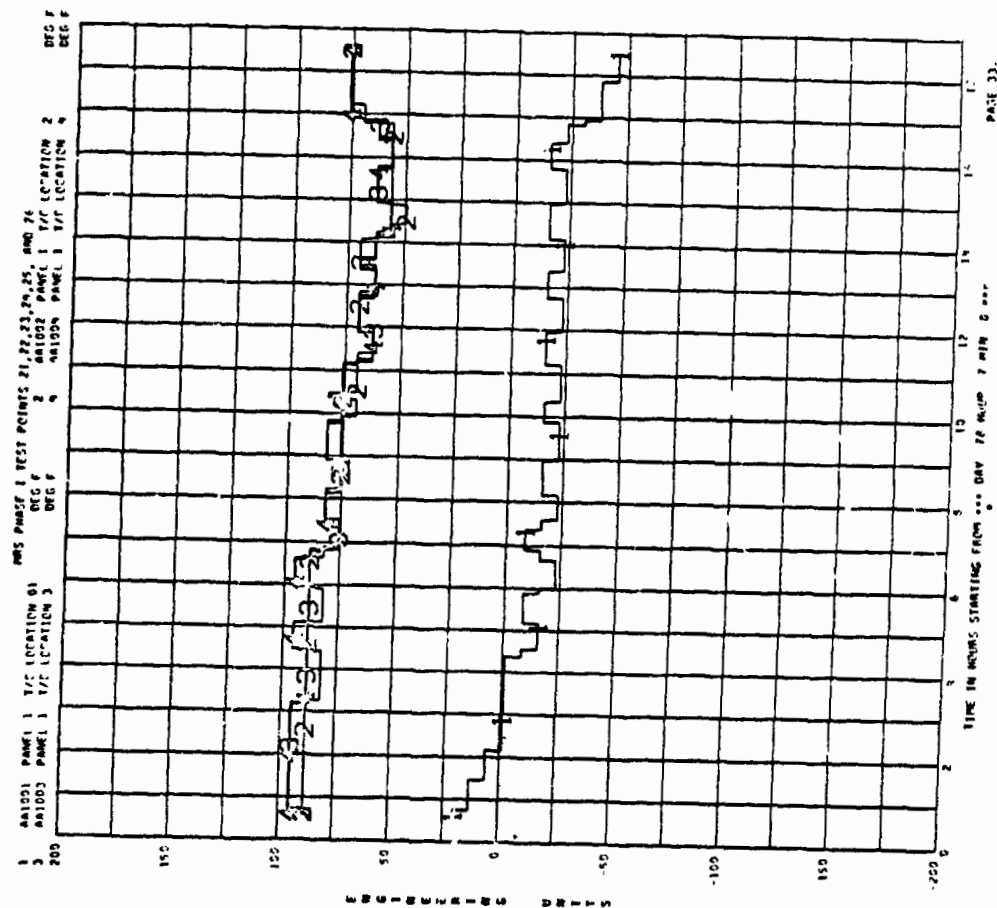


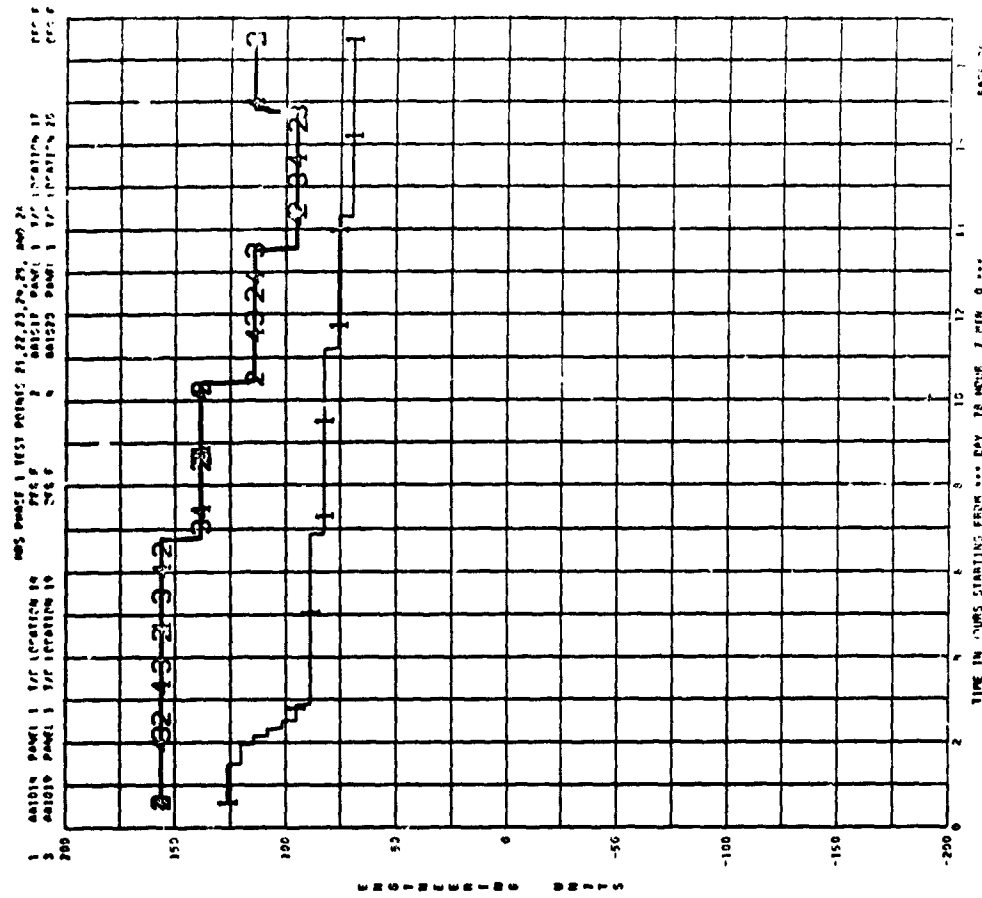
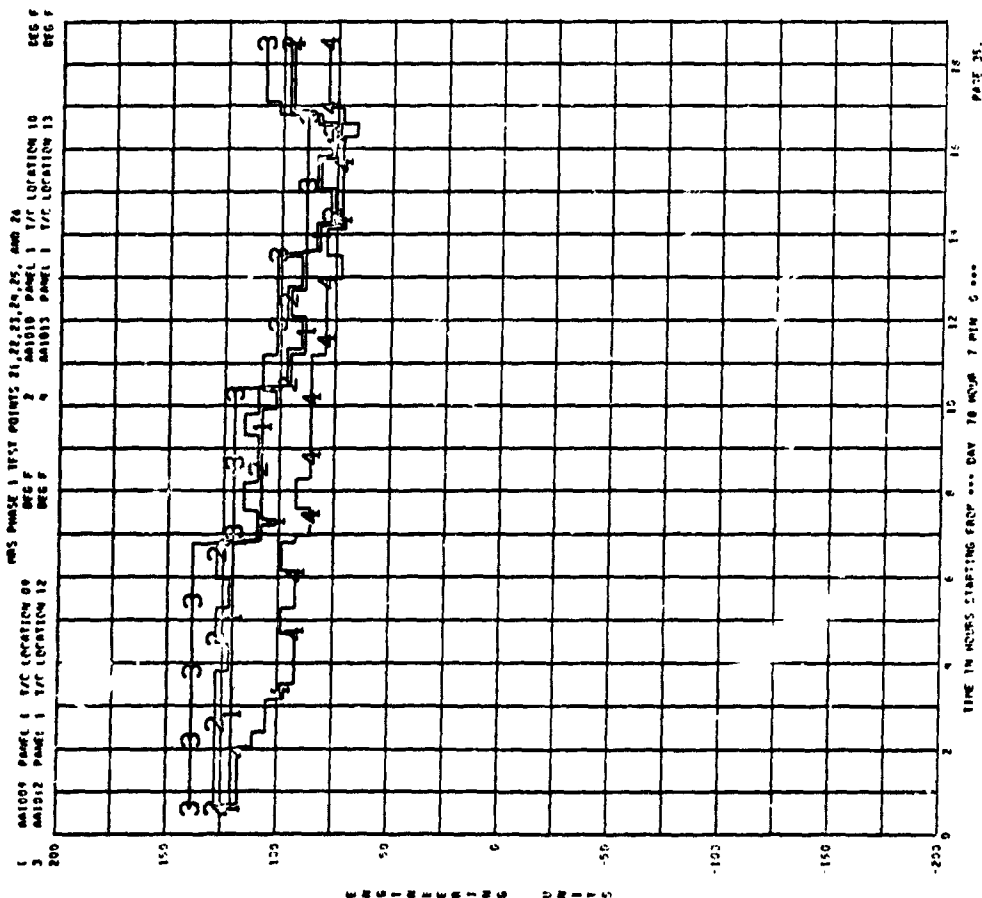


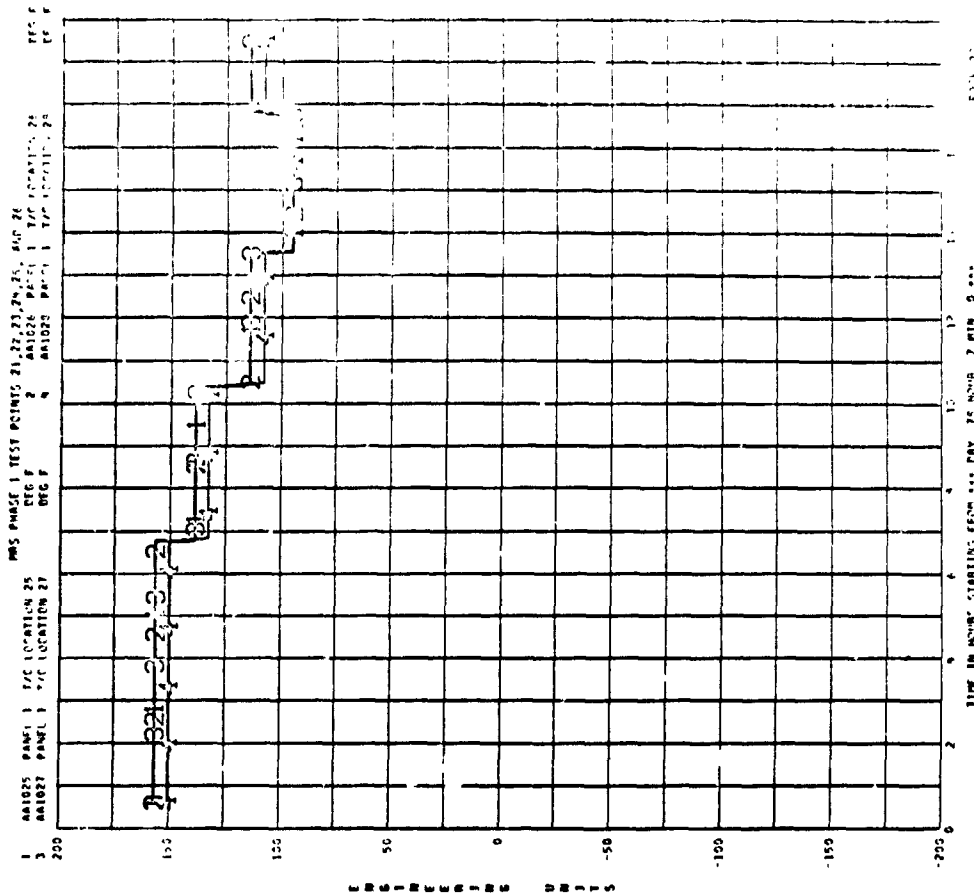
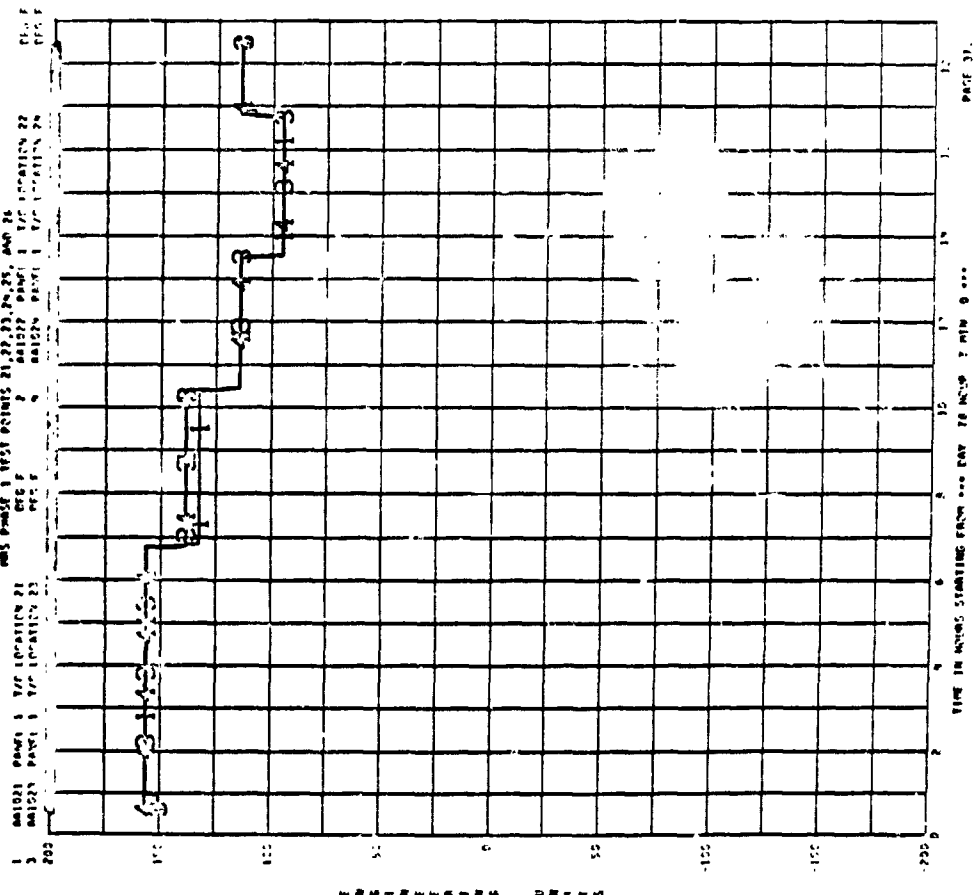


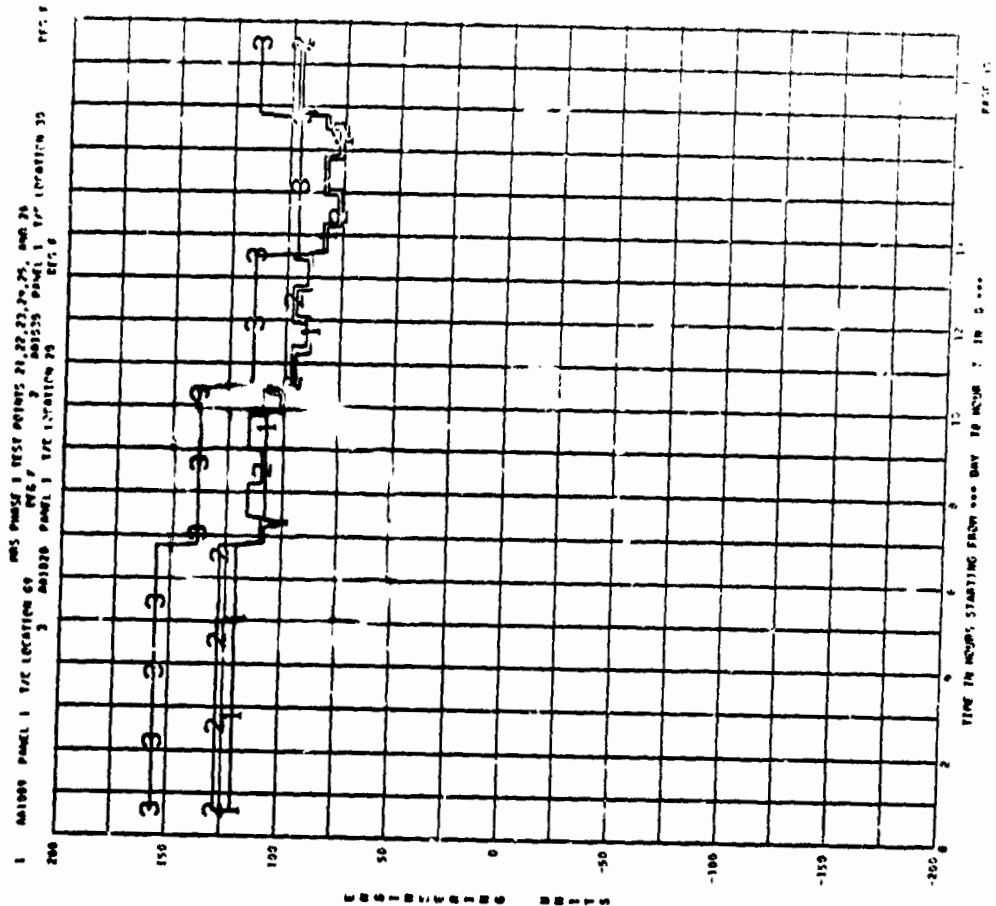
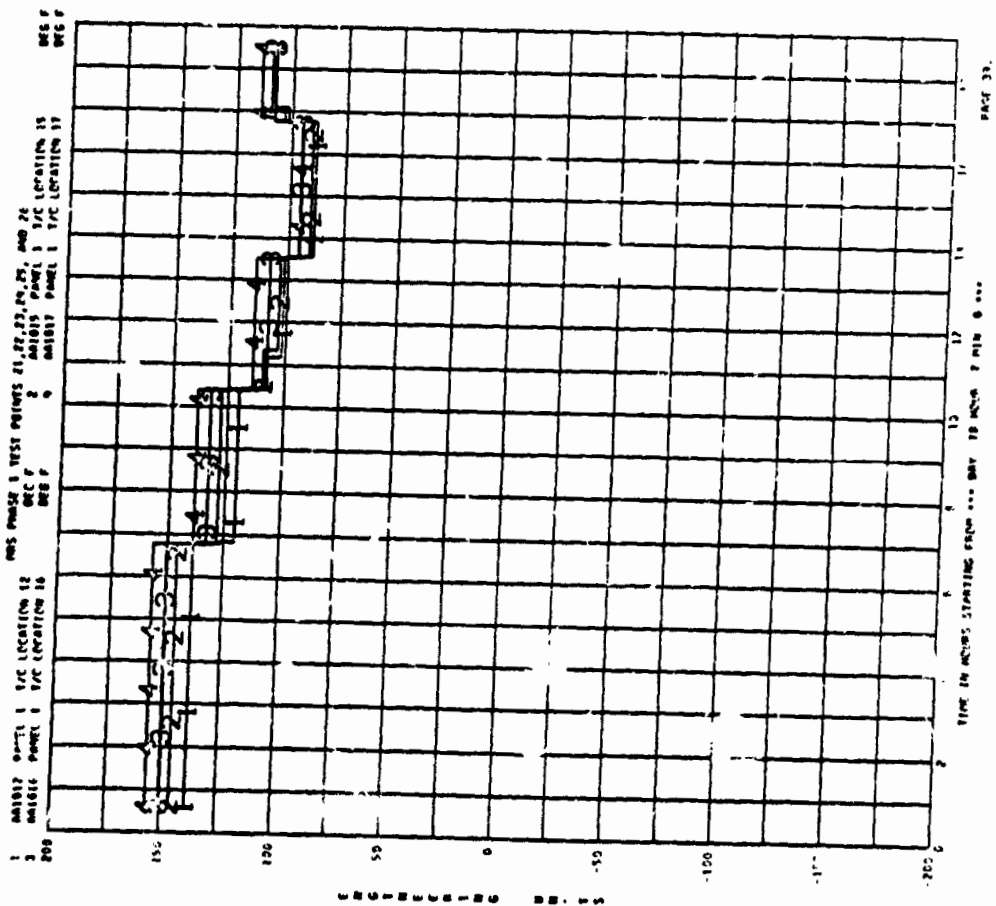








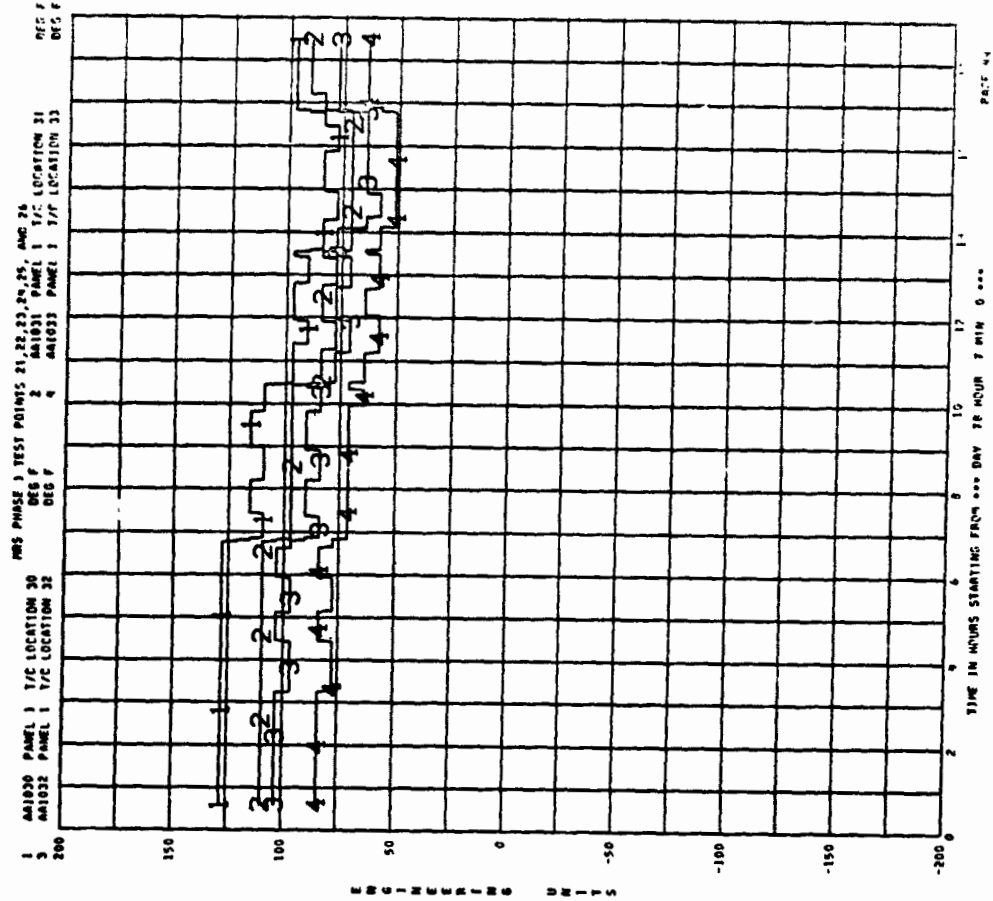
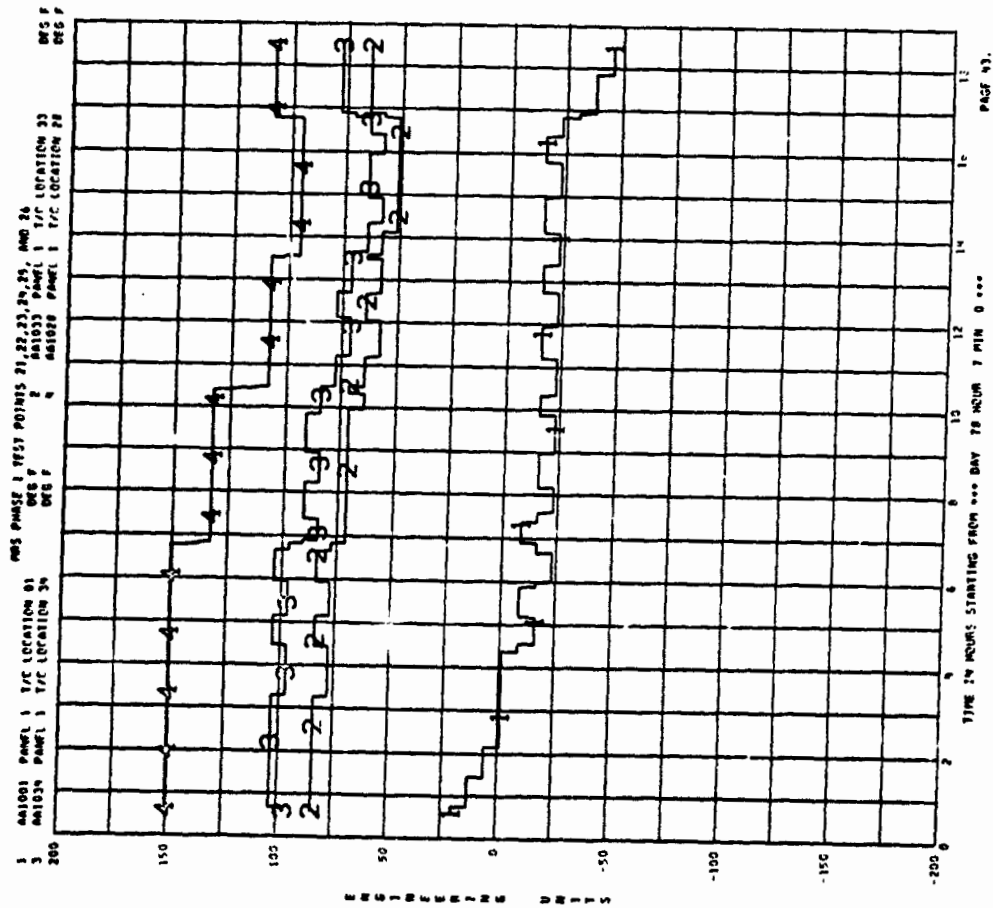


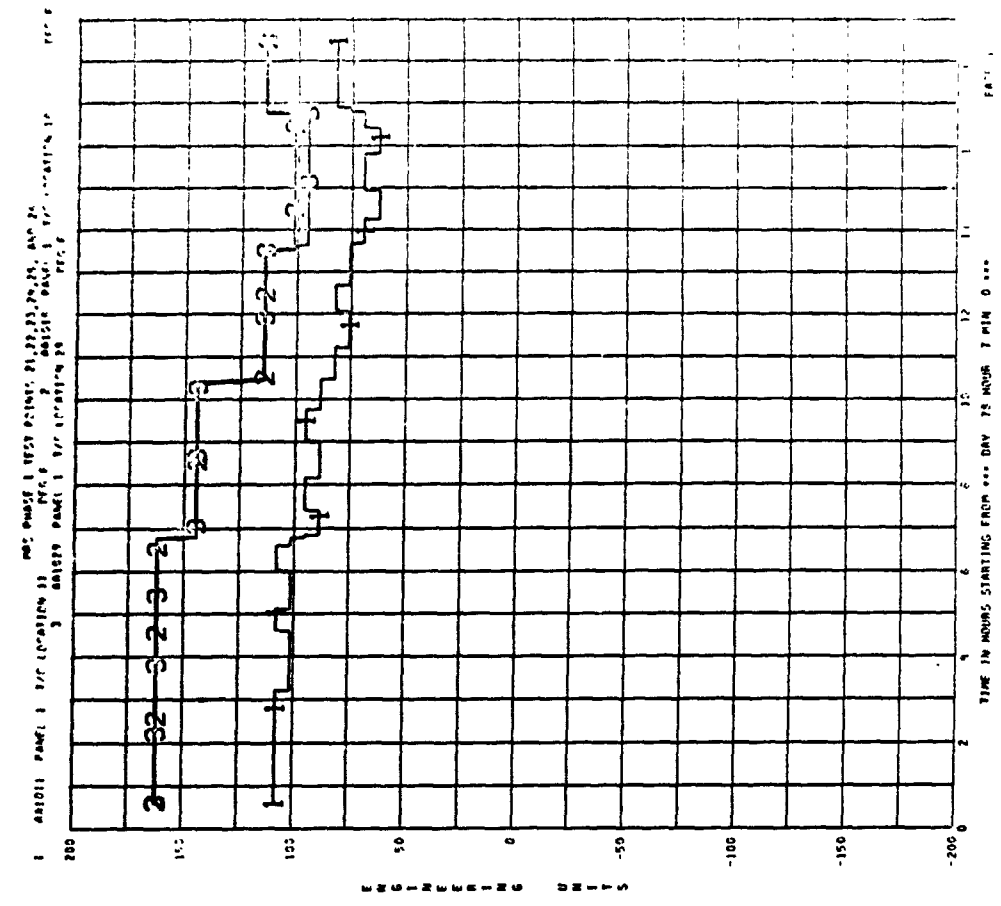
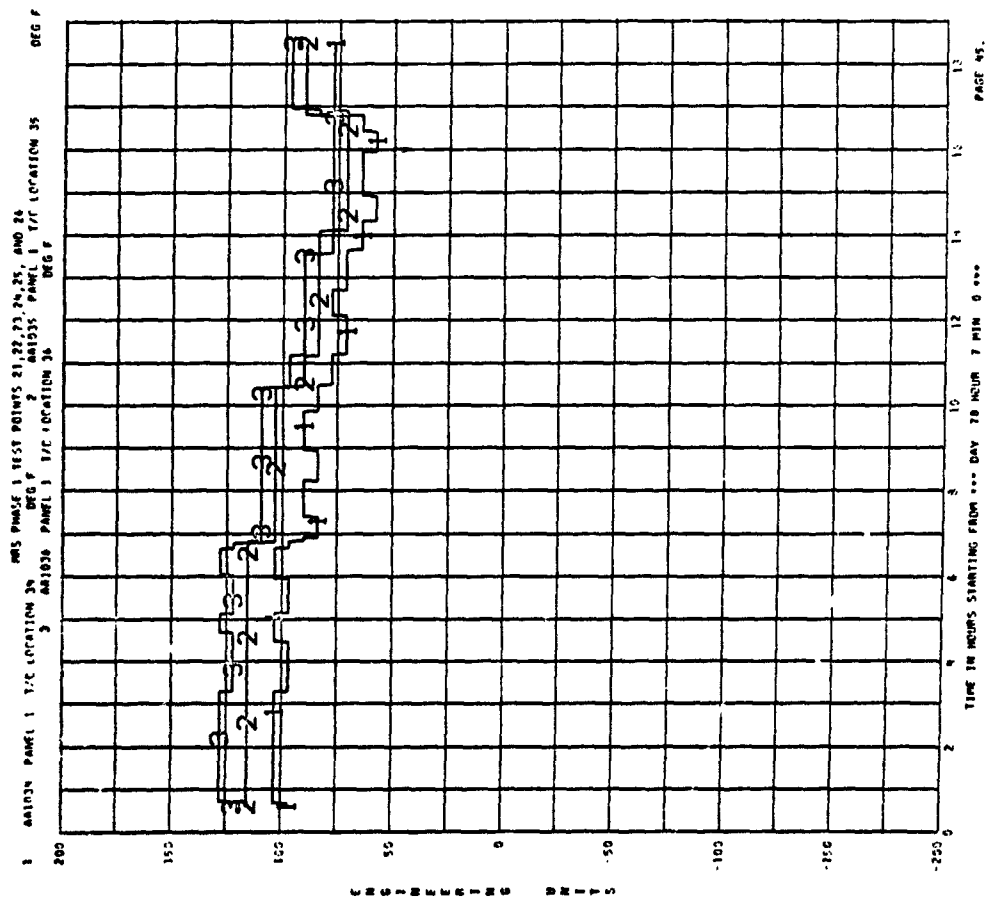


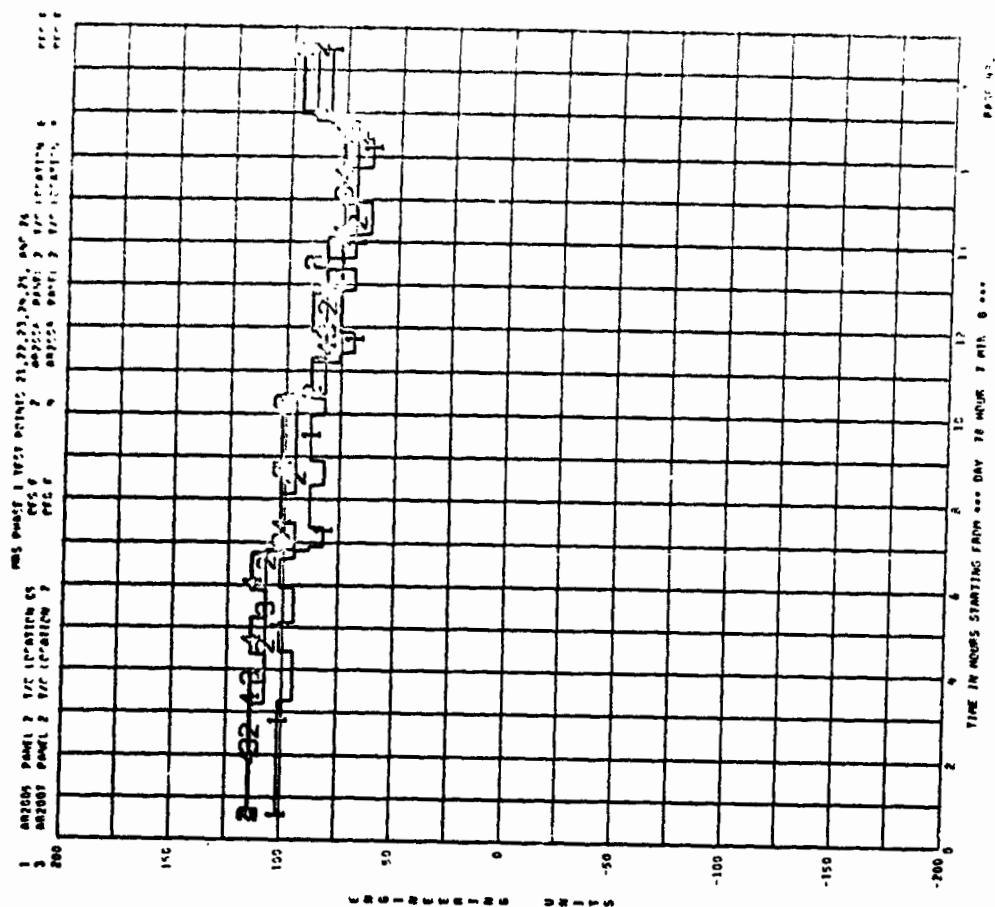
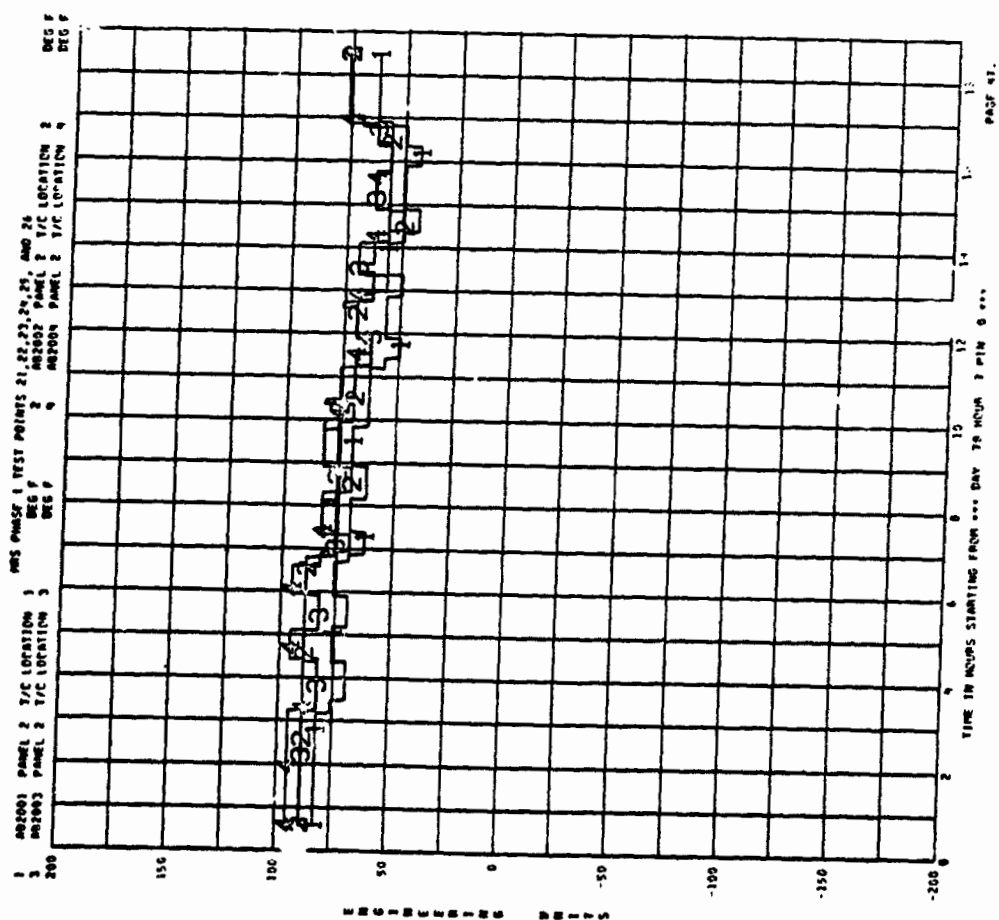


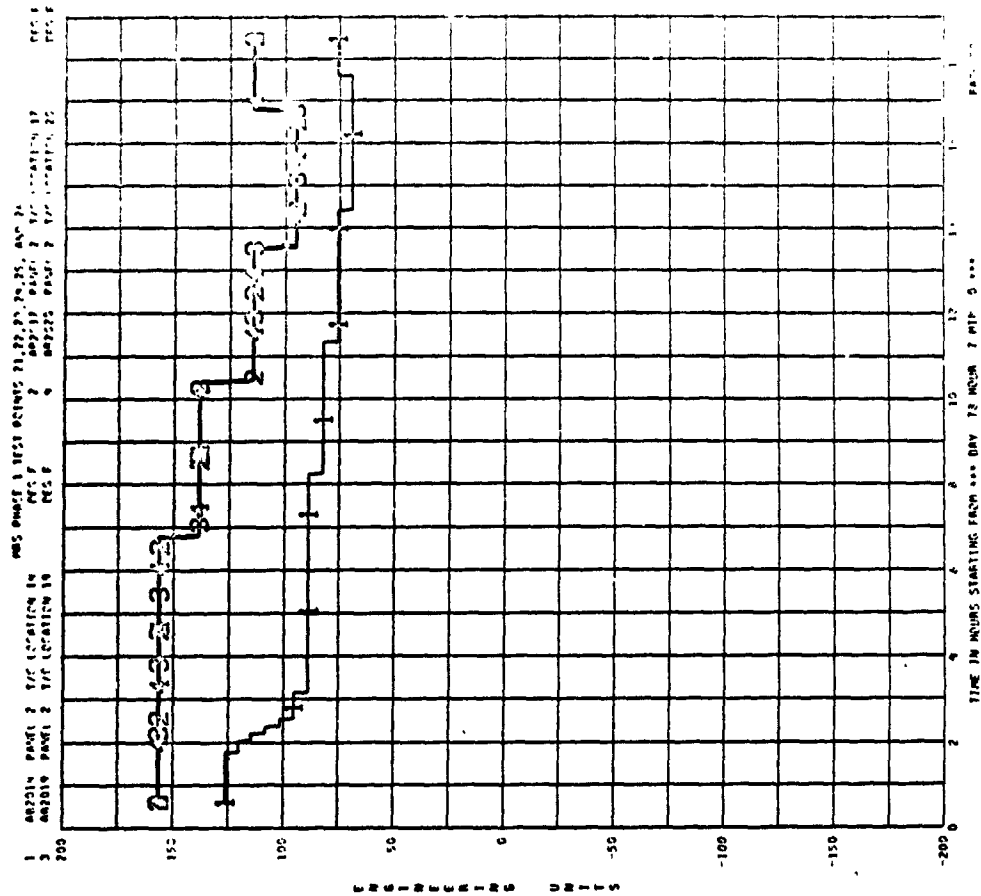
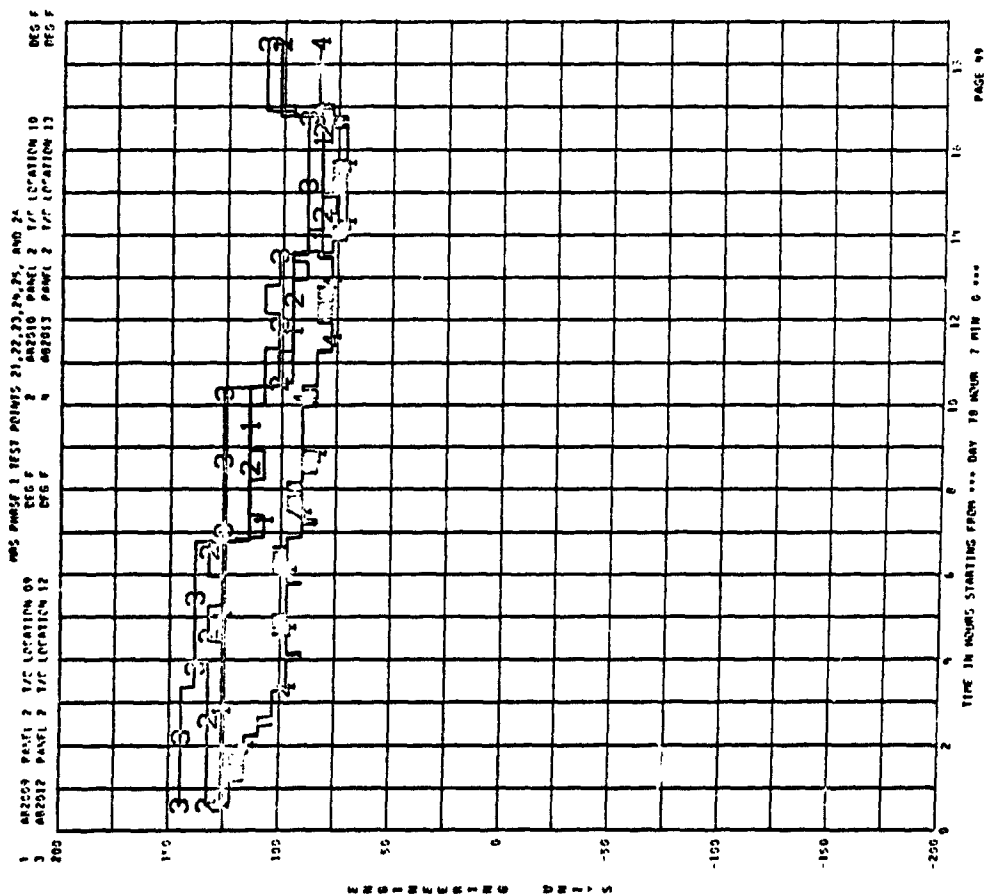


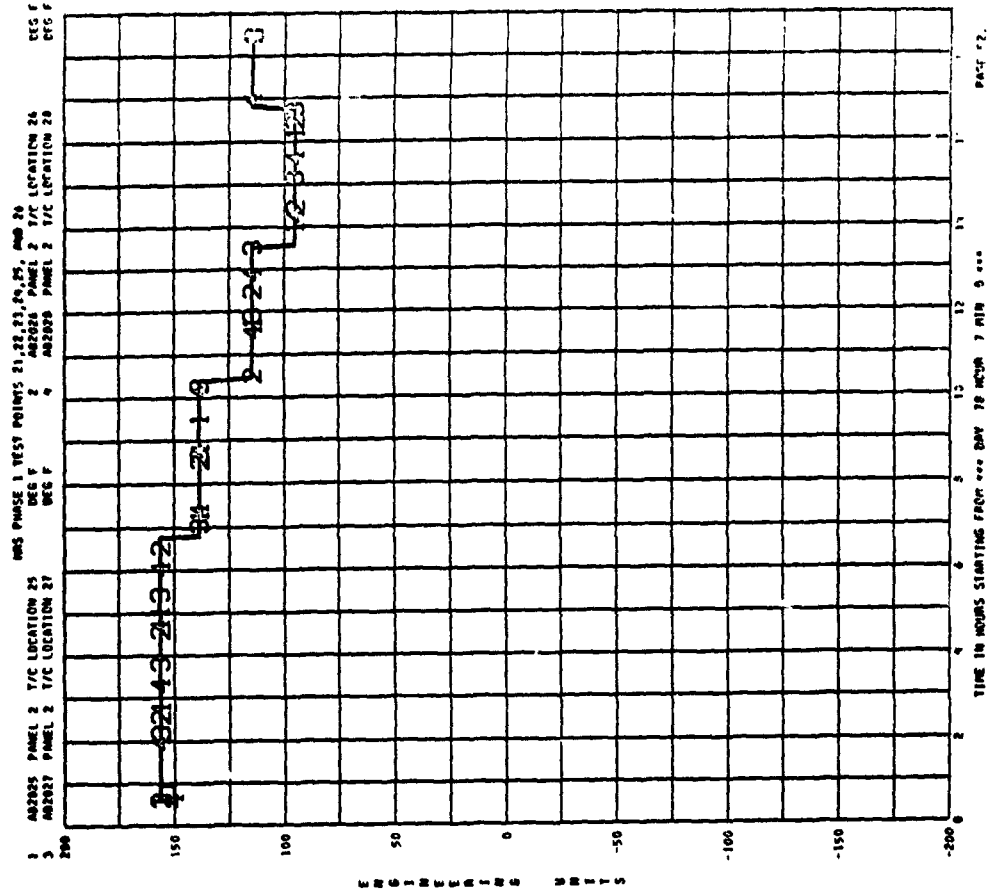
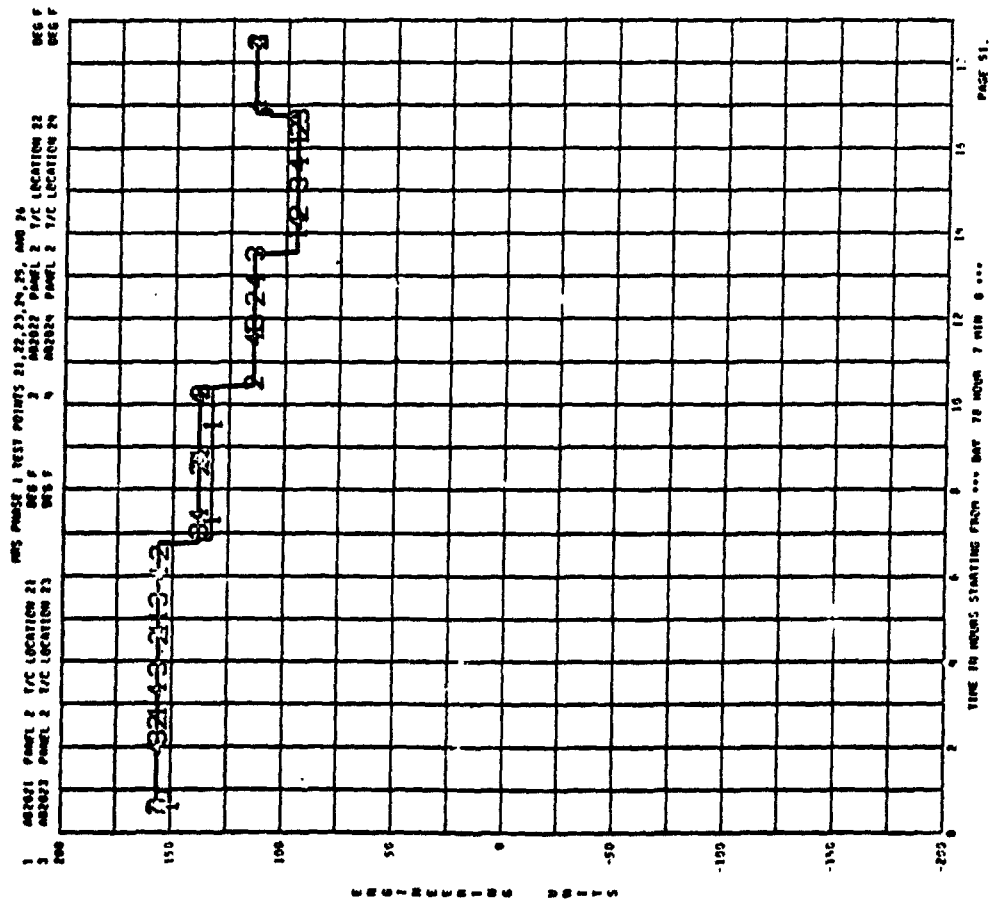
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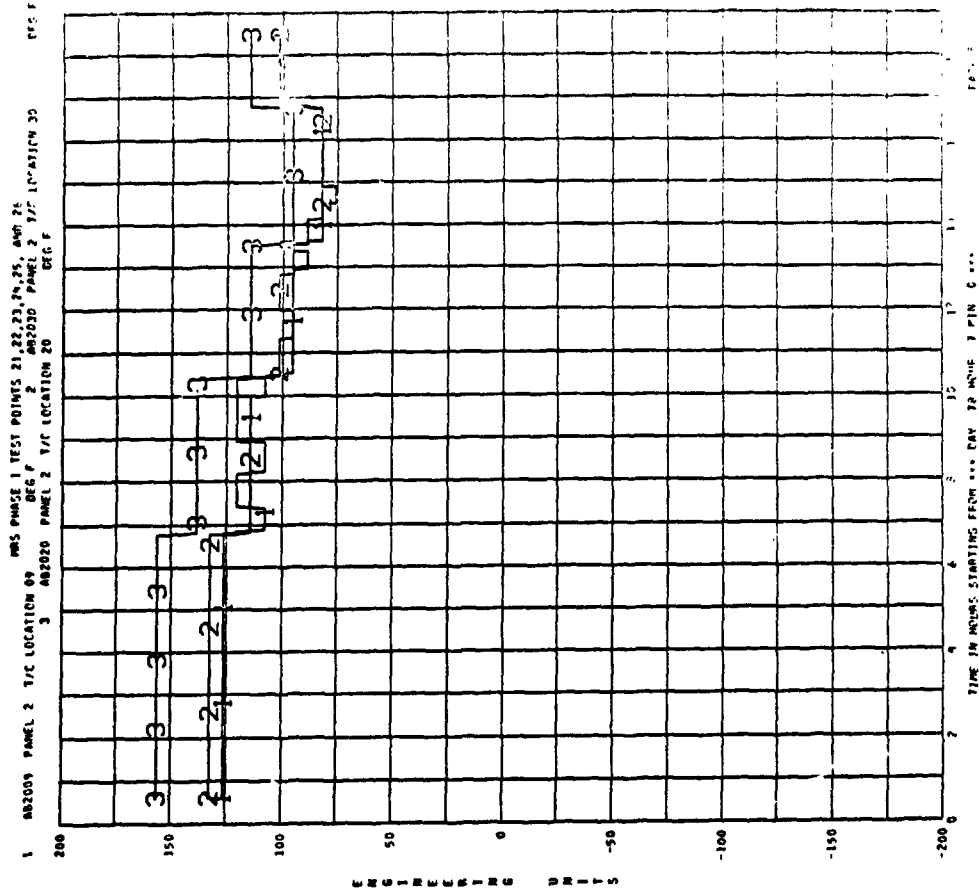
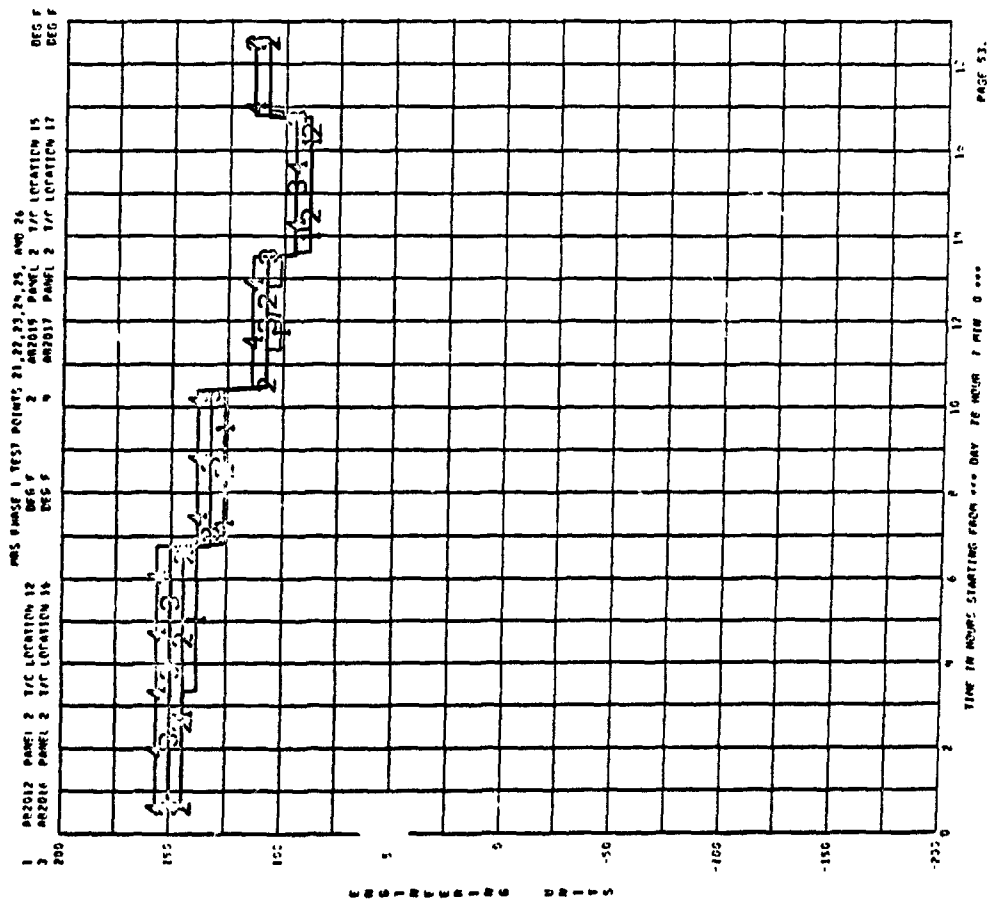


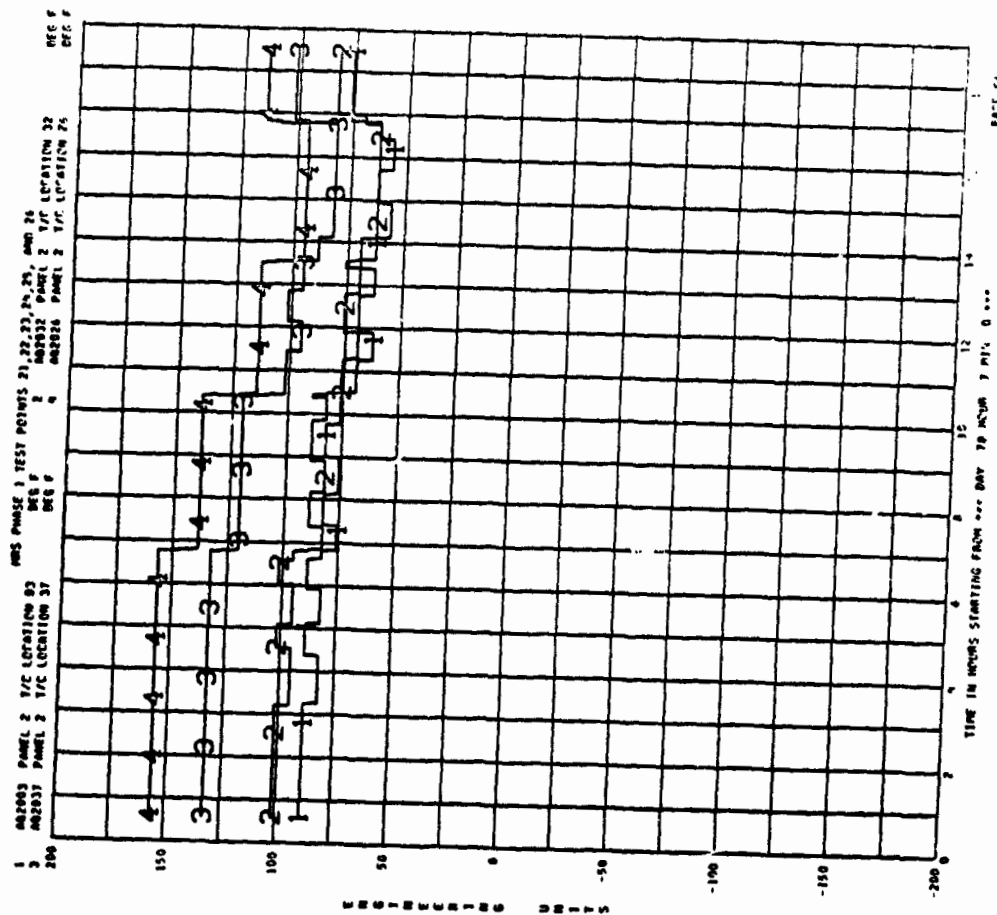
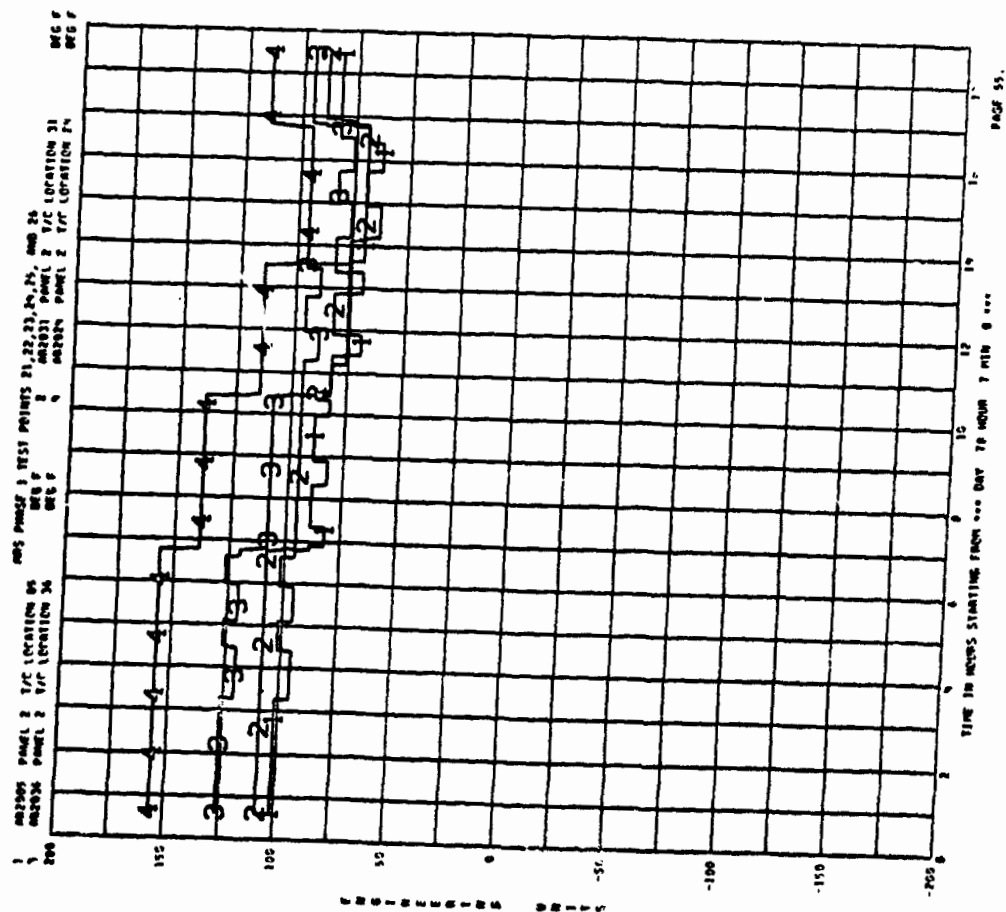




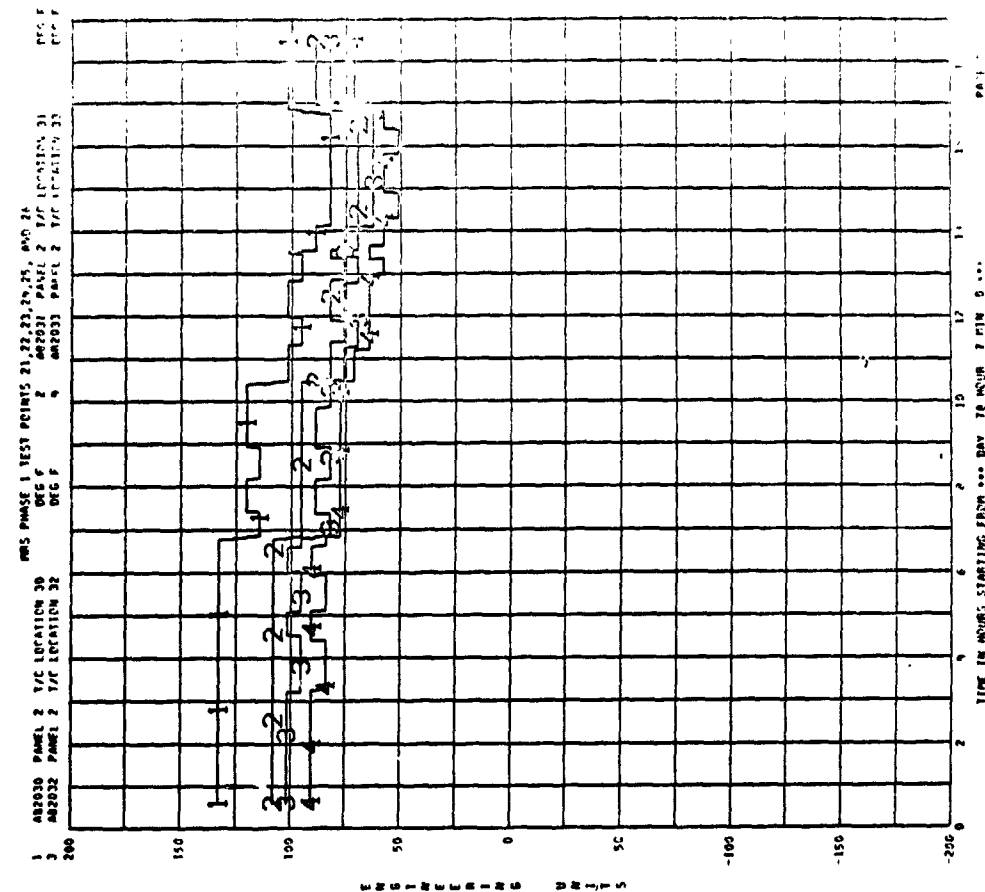
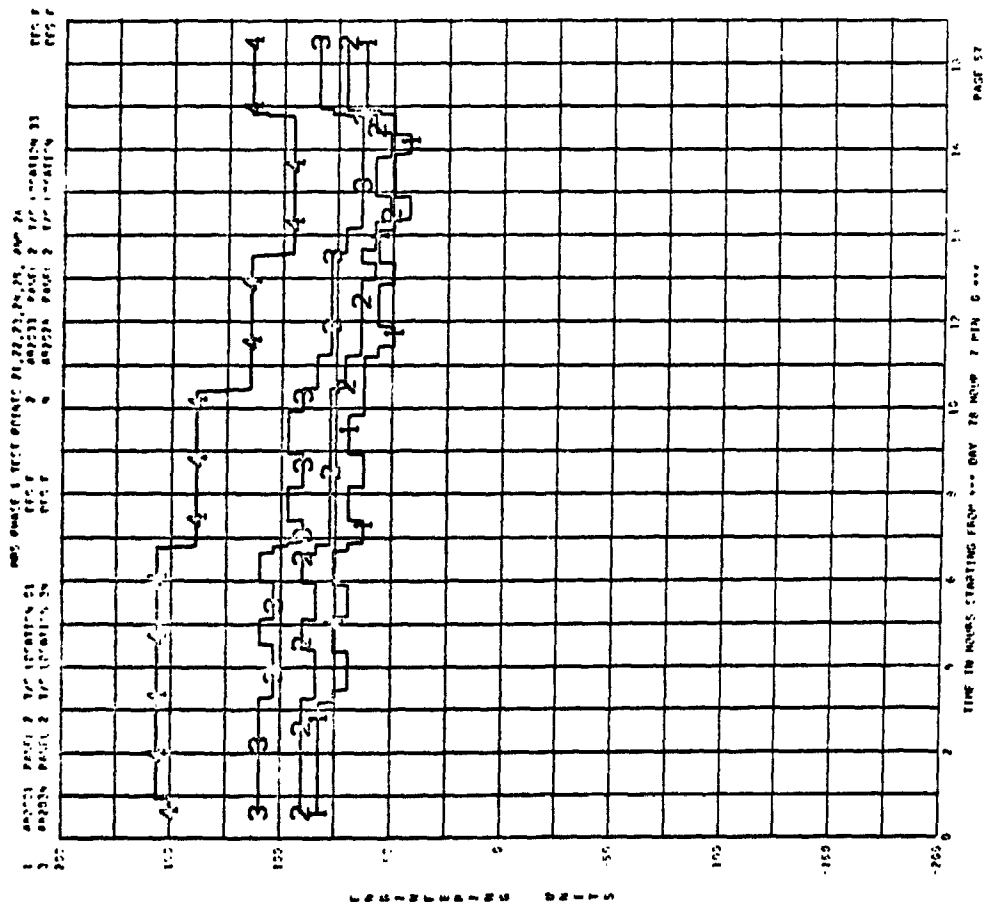




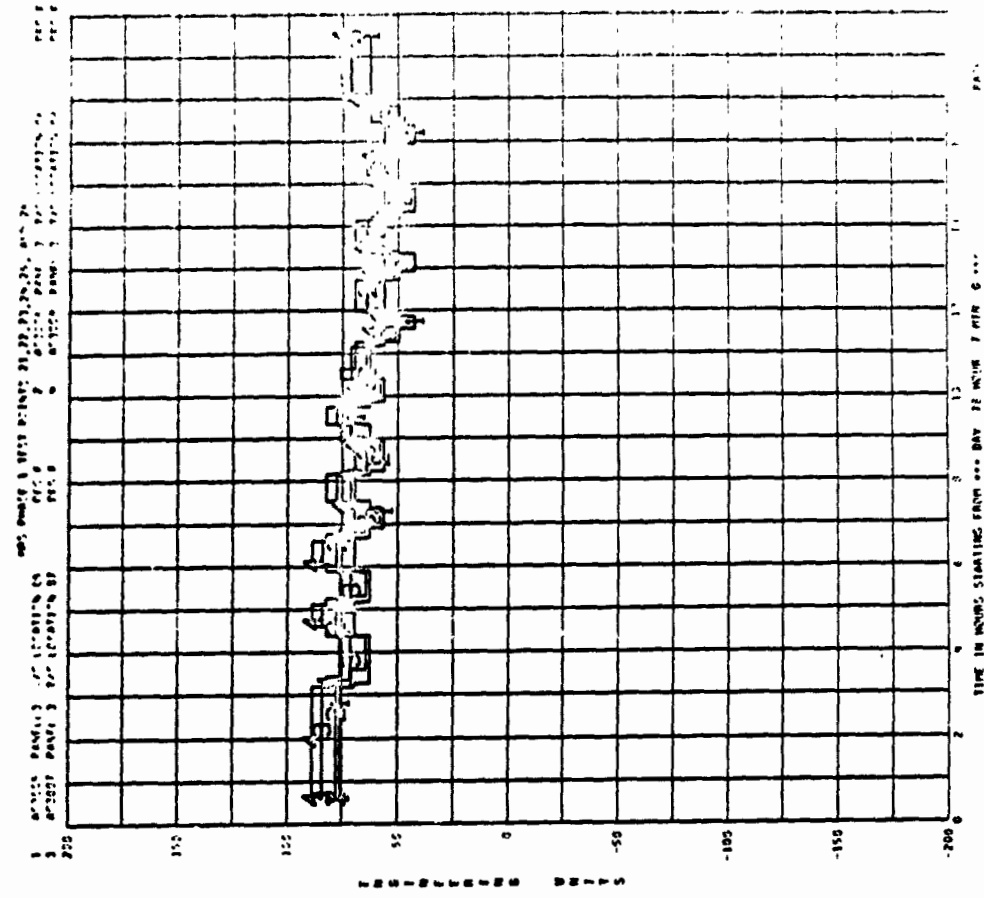
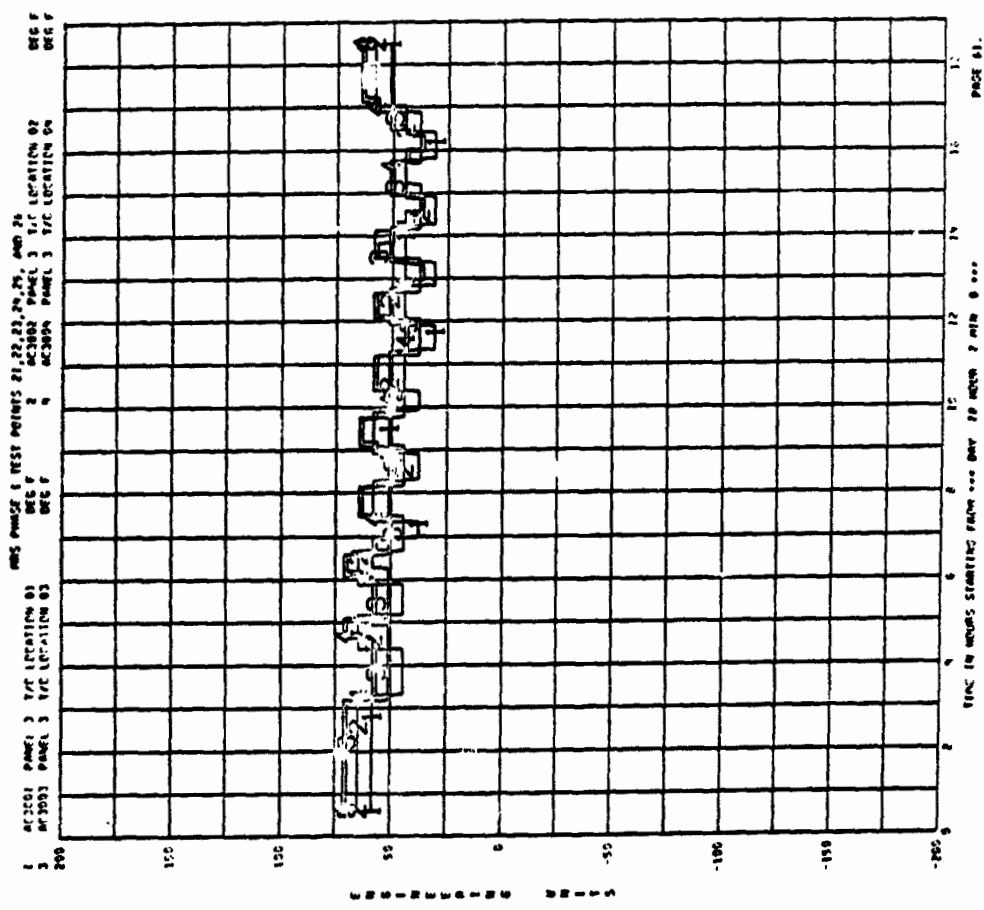


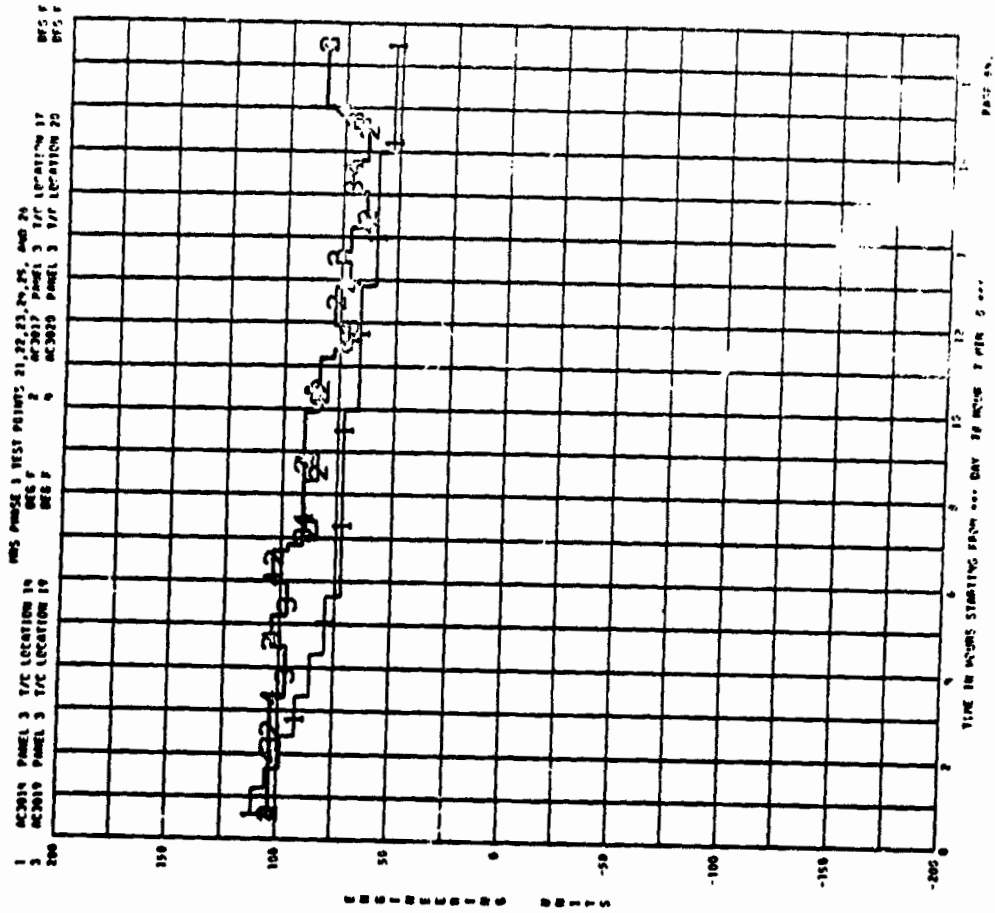
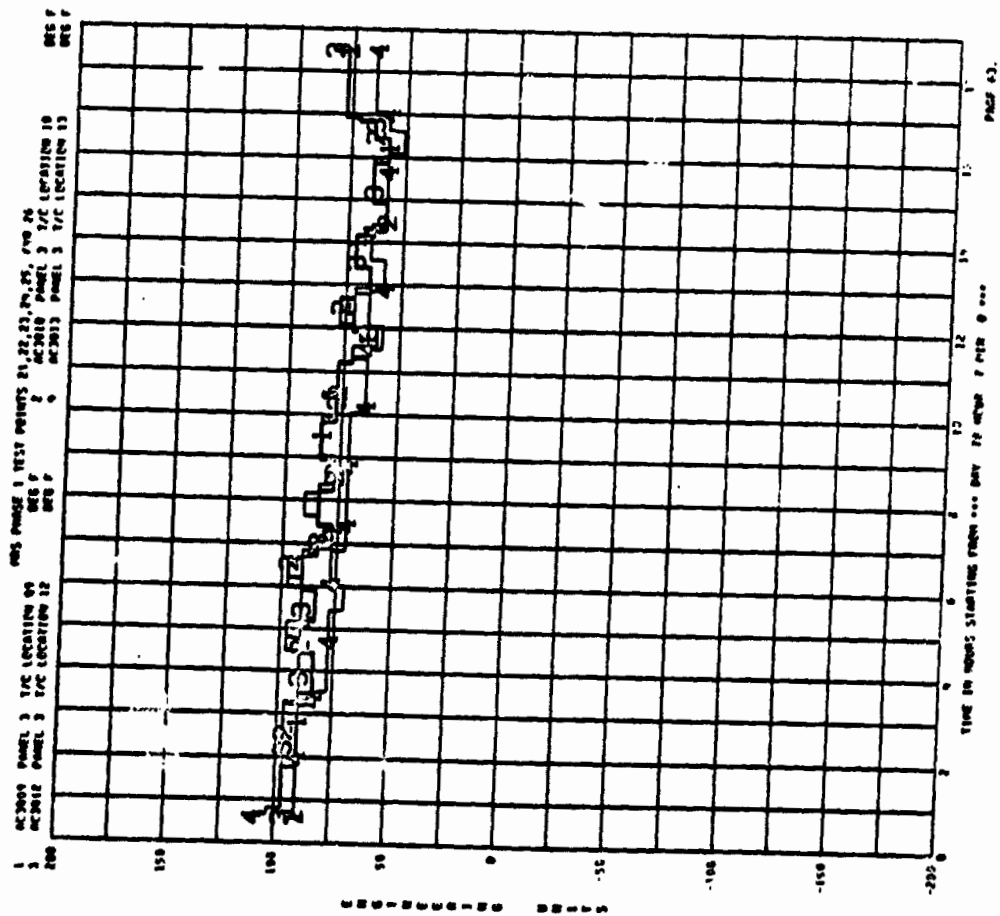


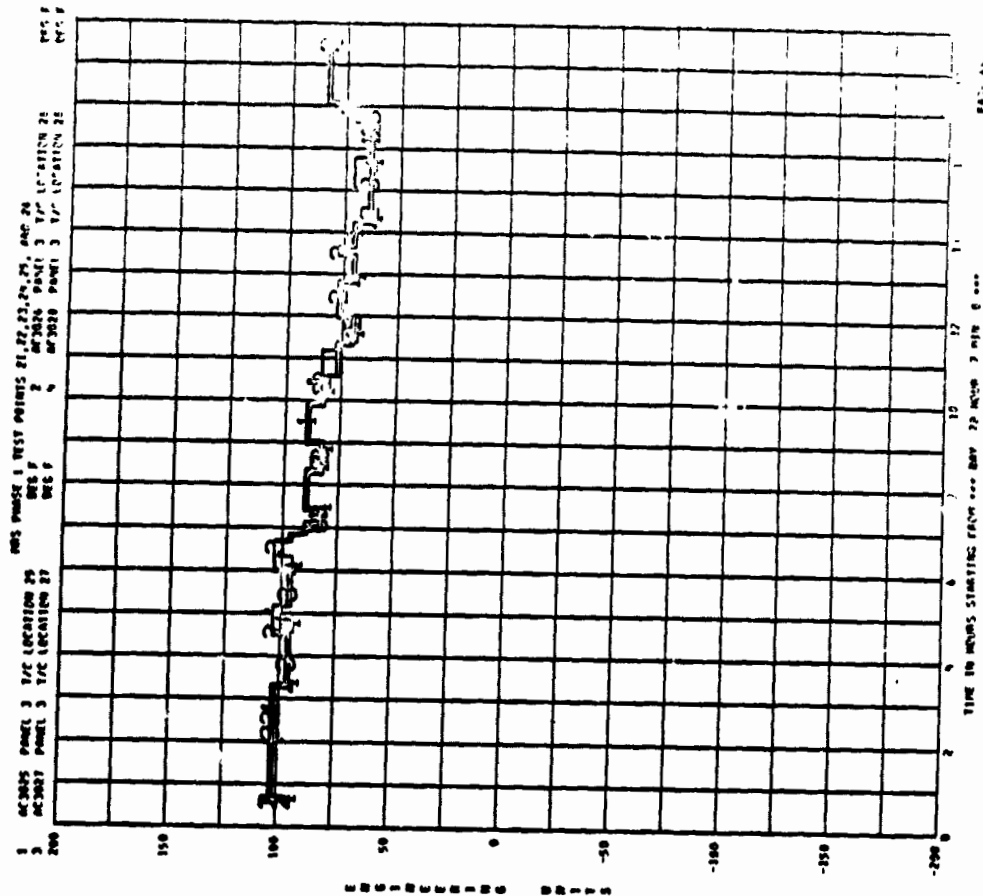
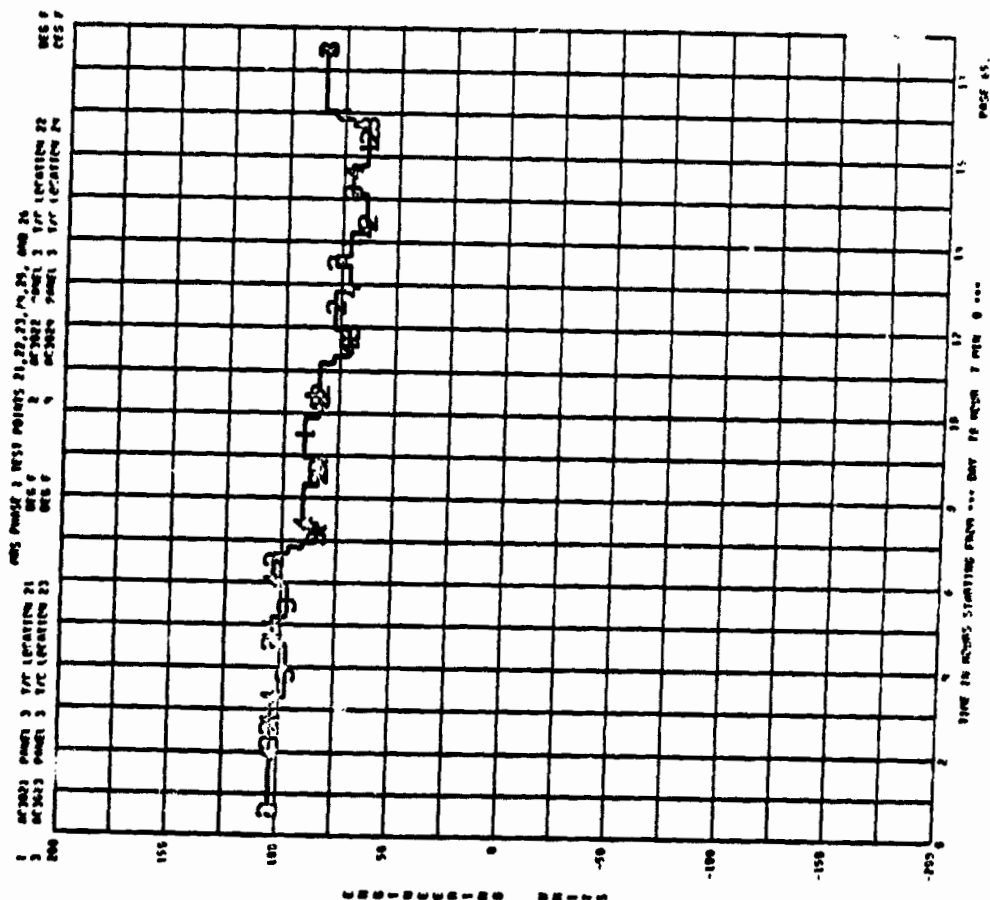


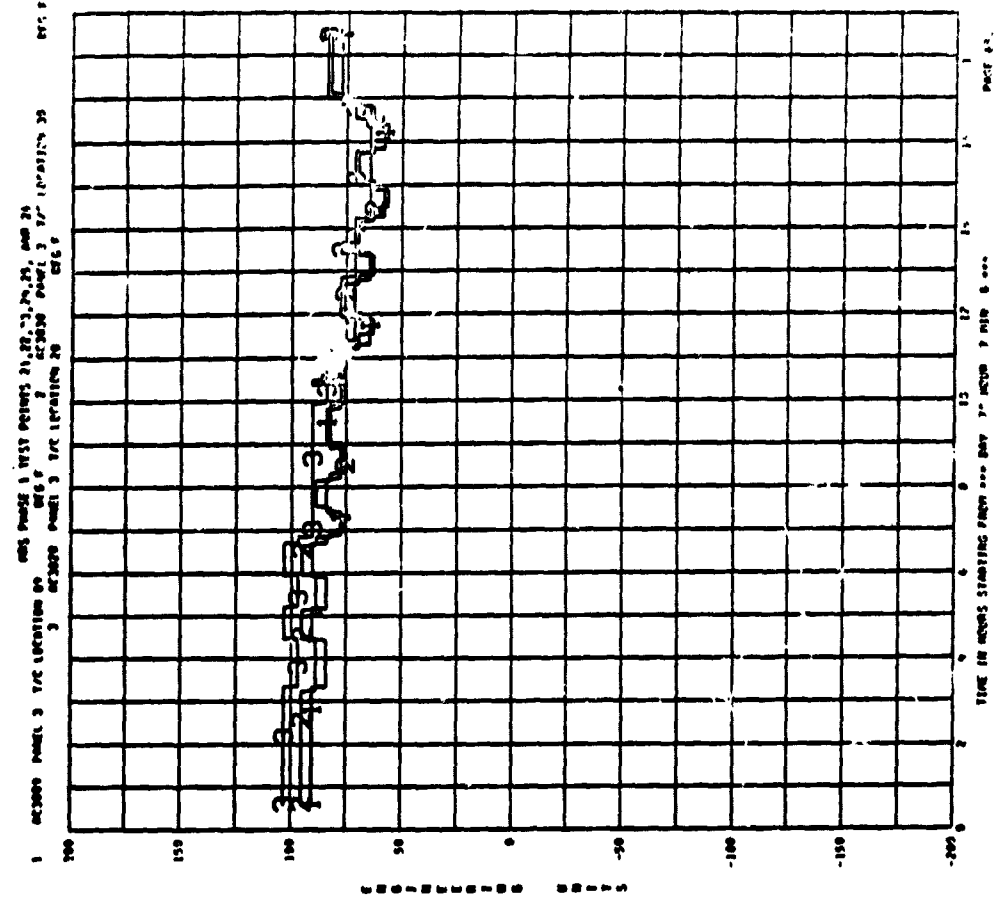
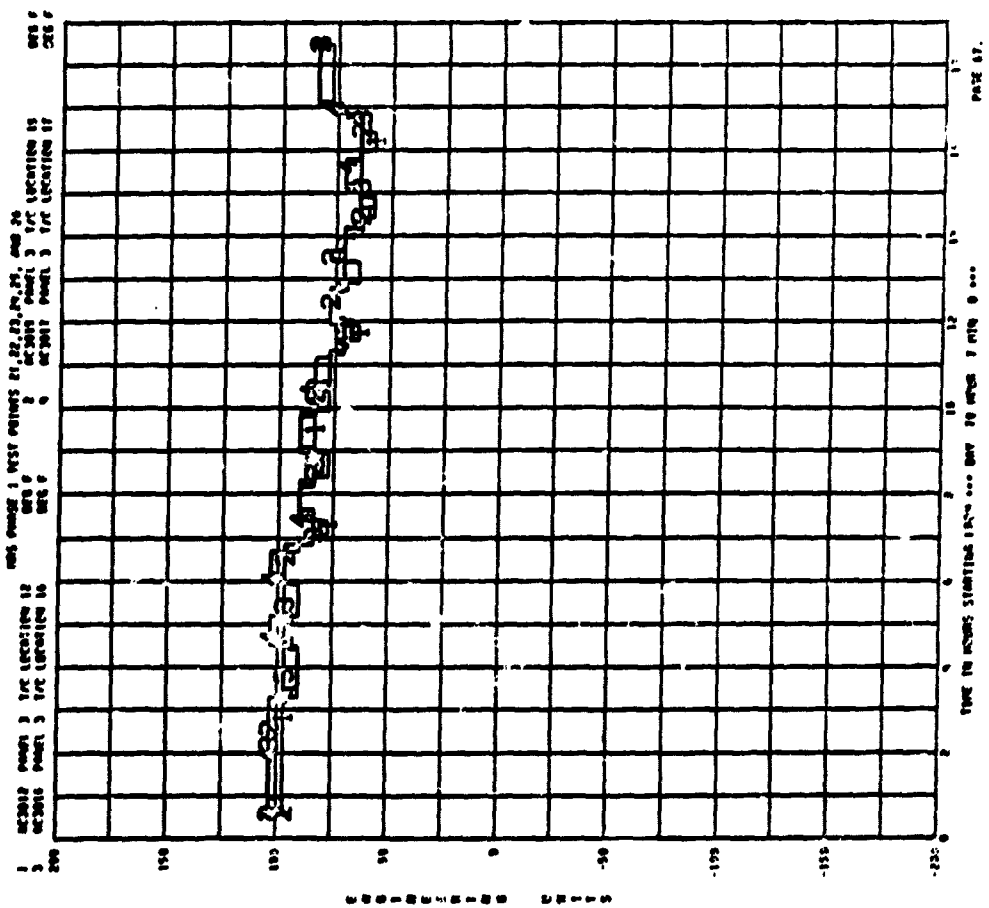




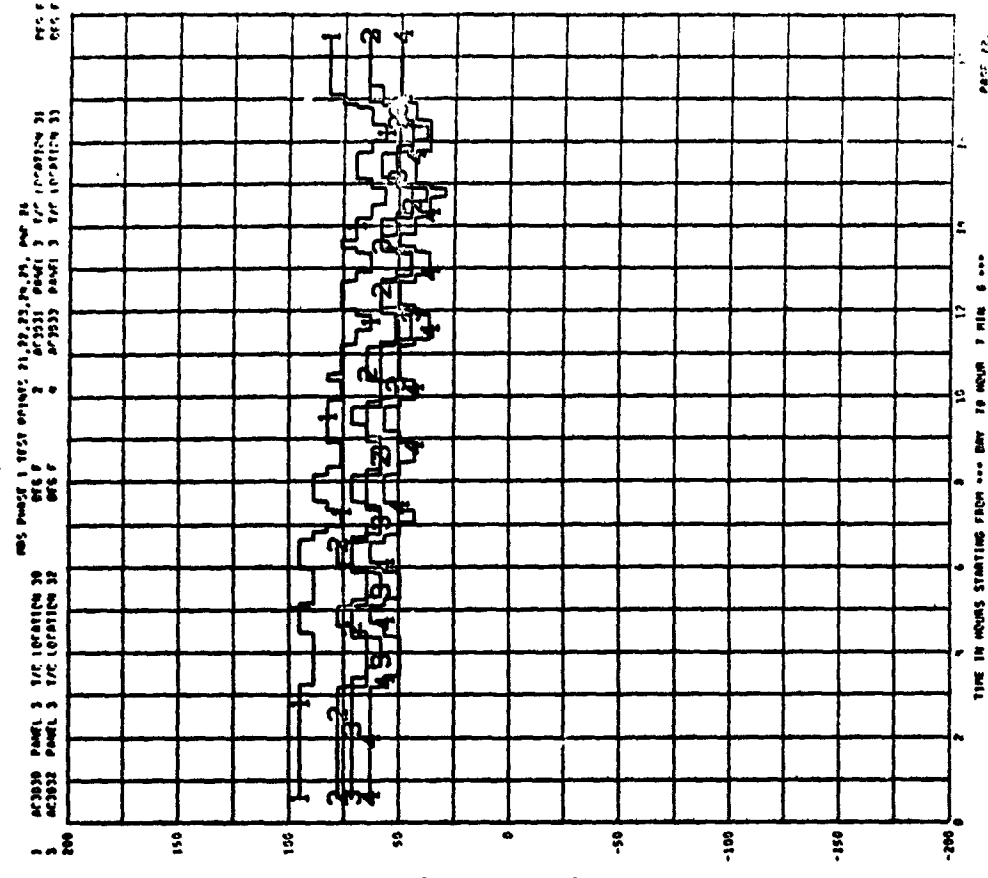
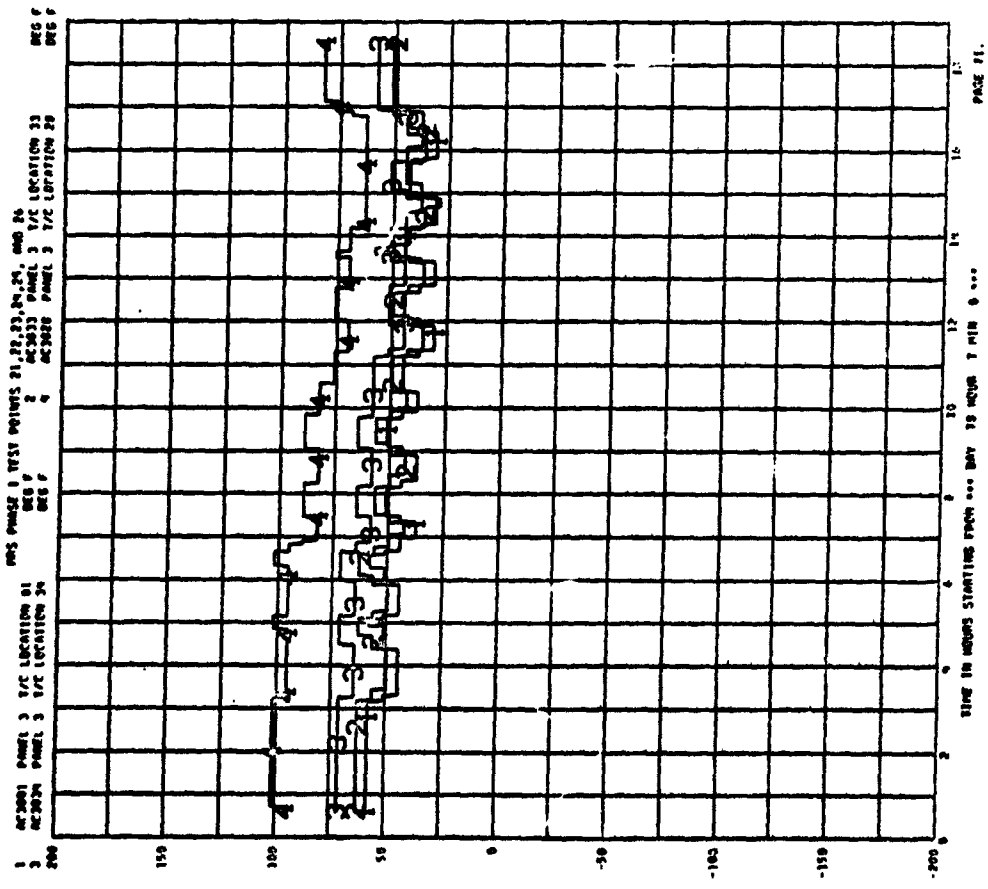






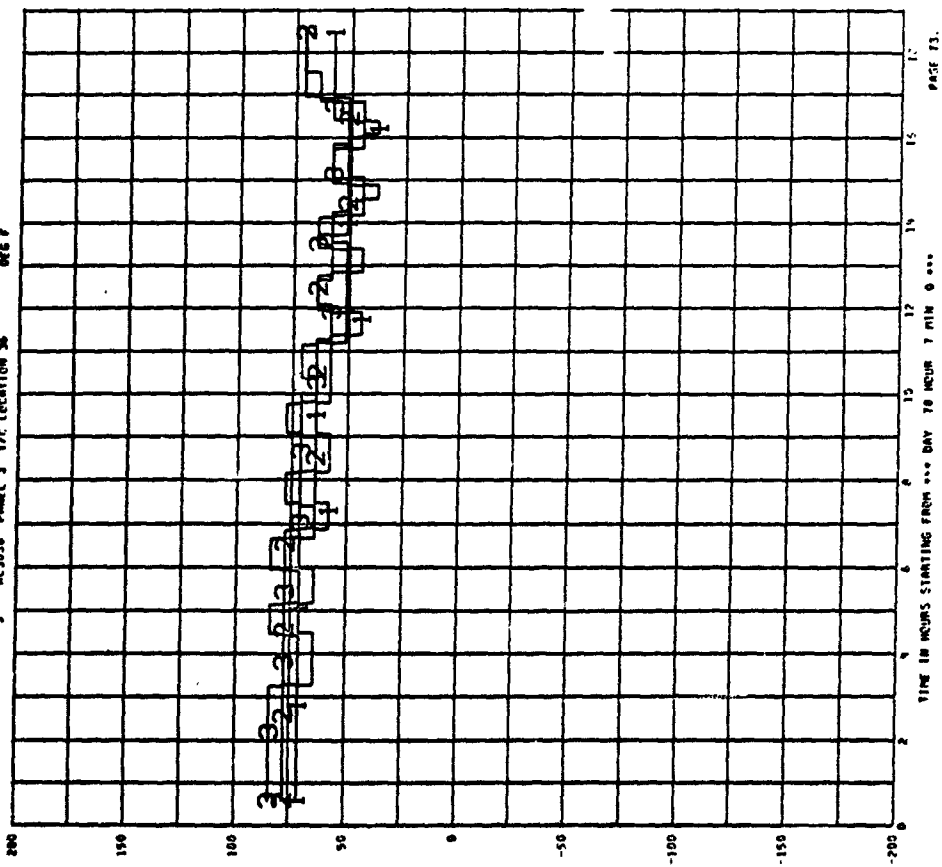




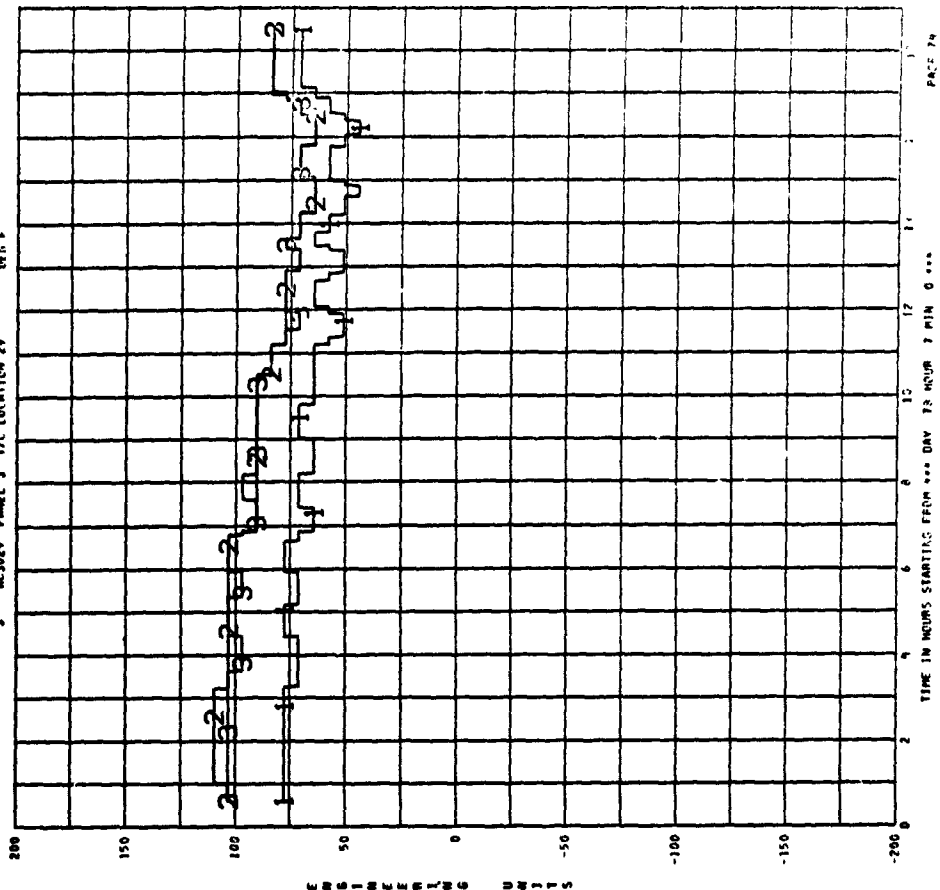


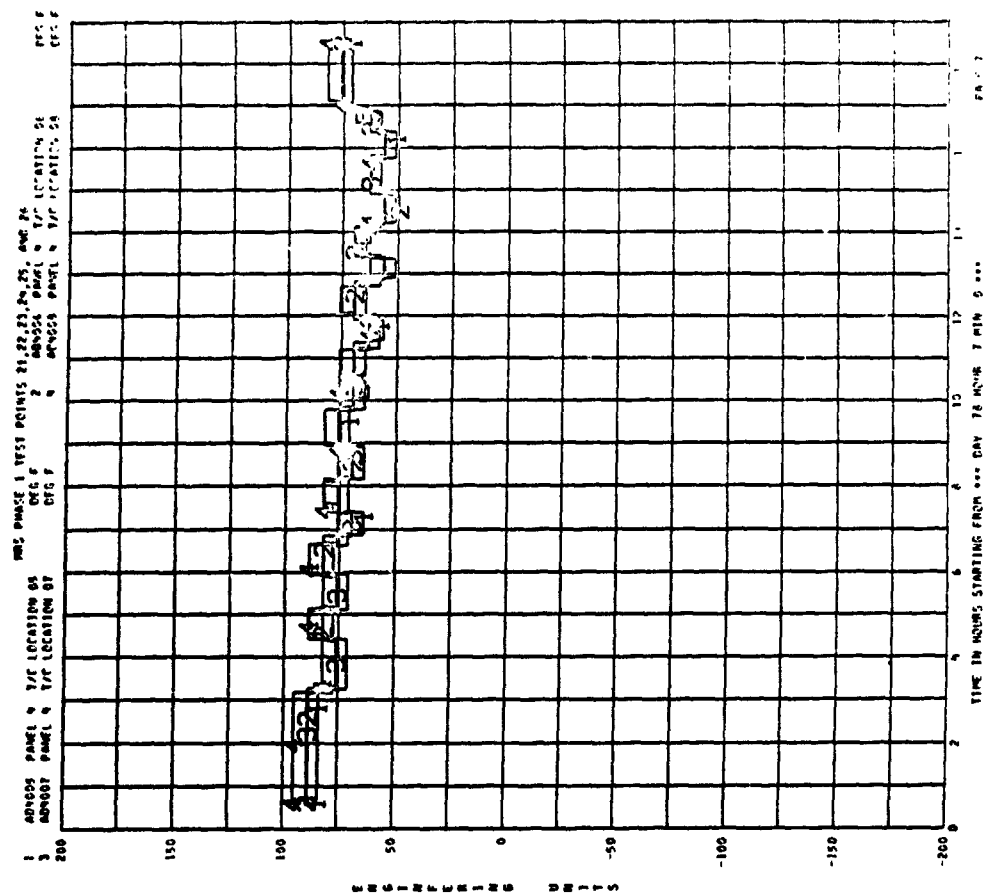
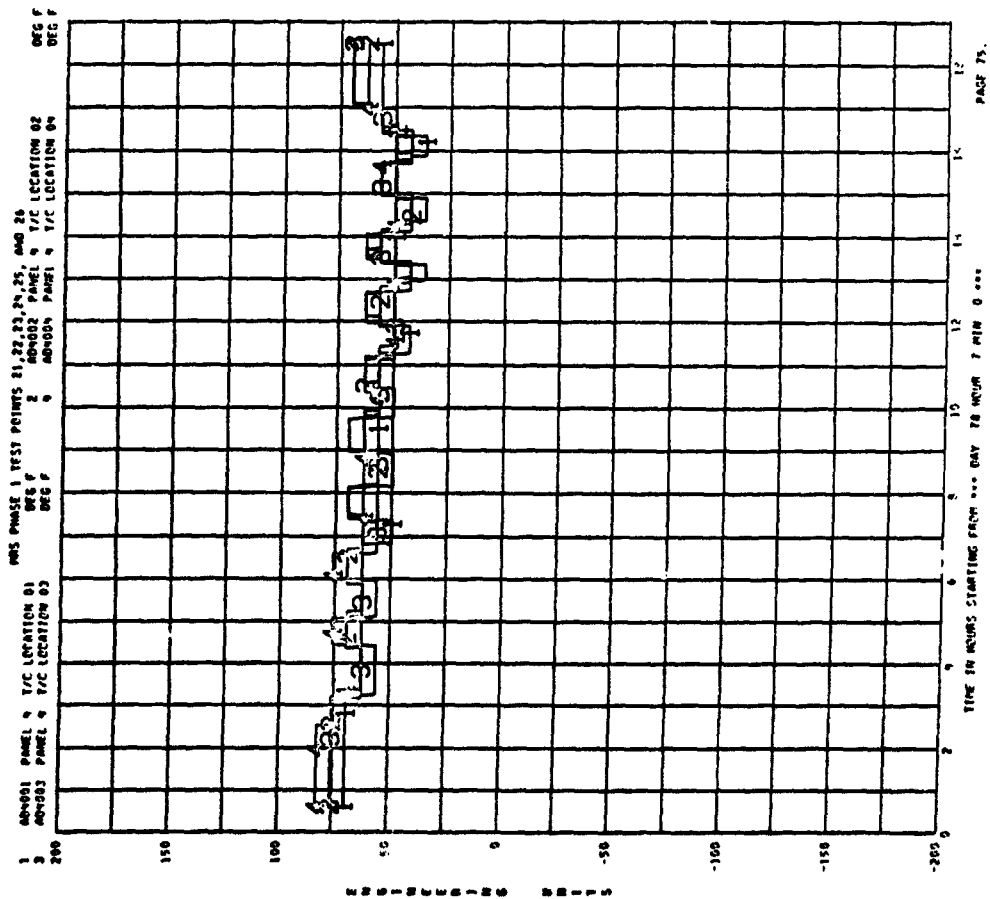


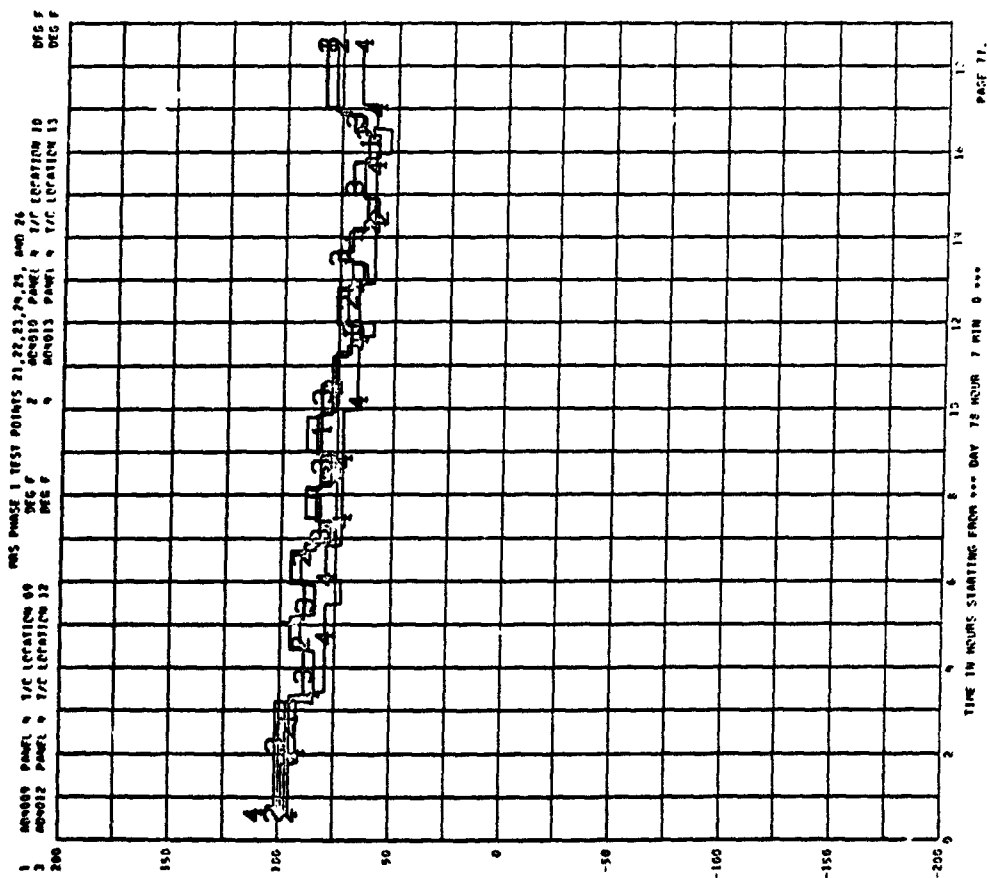
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200 3 AC3036 PANEL 3 1/C LOCATION 36 DEG F

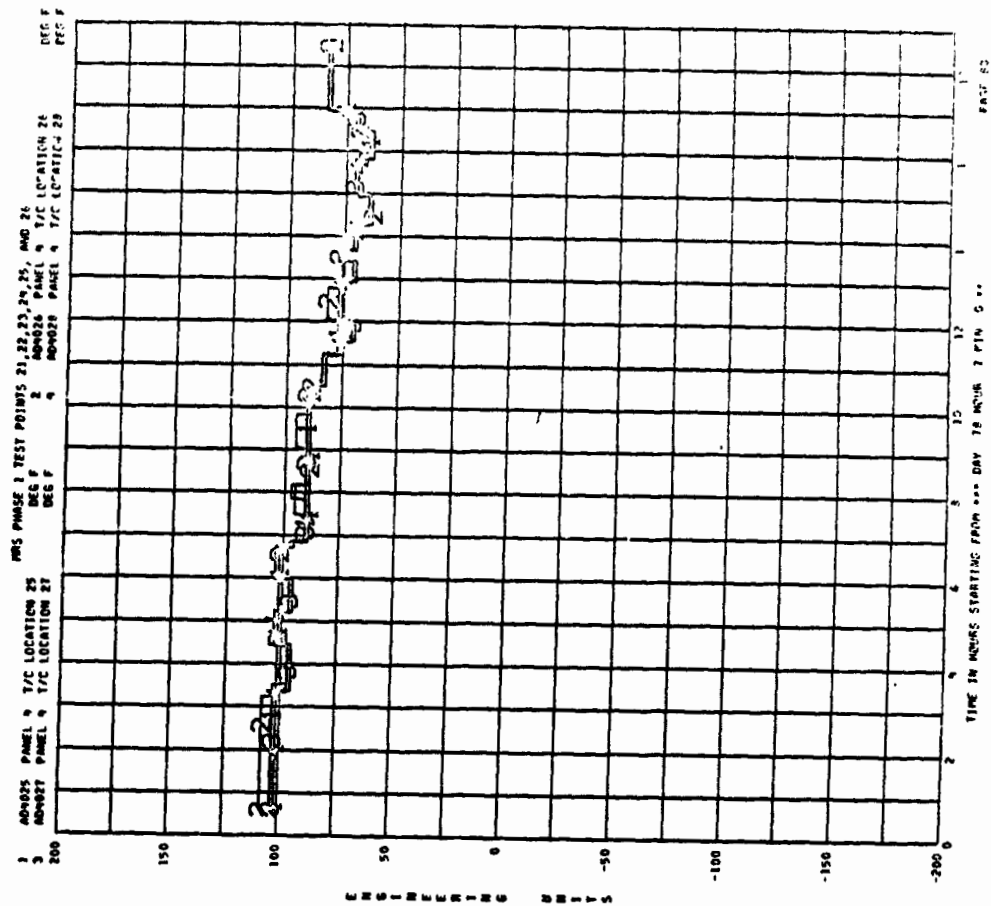
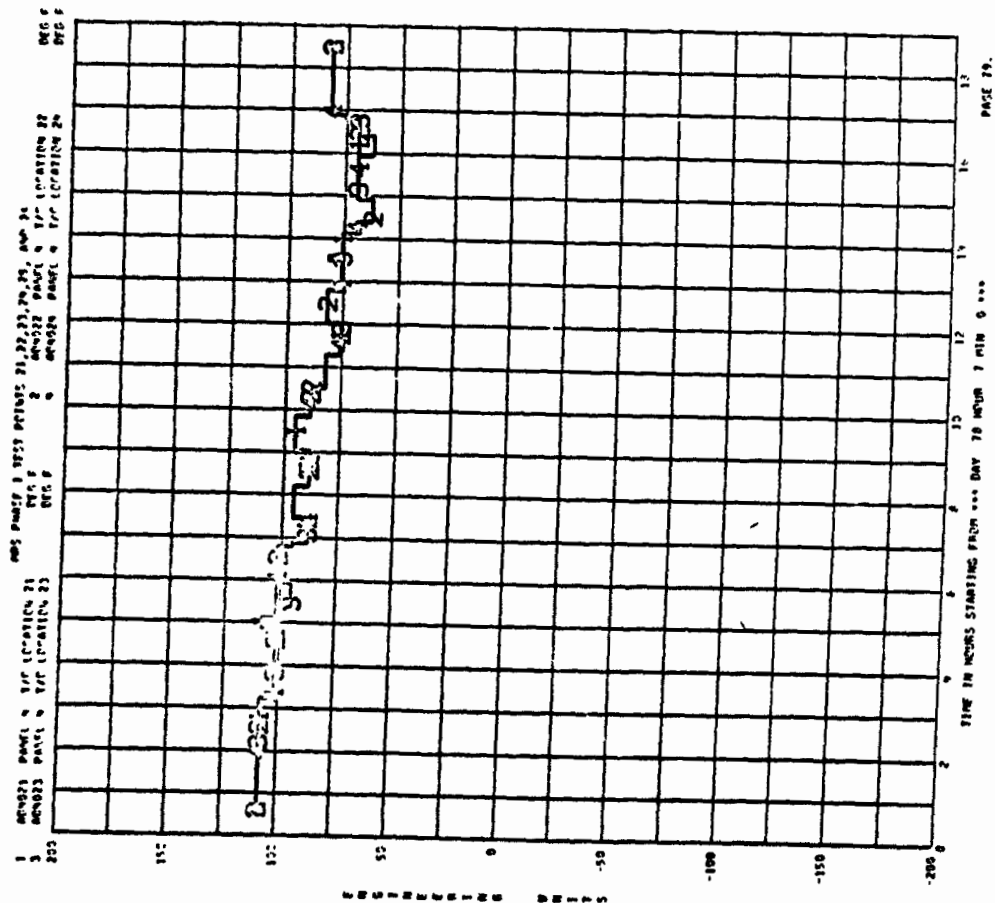


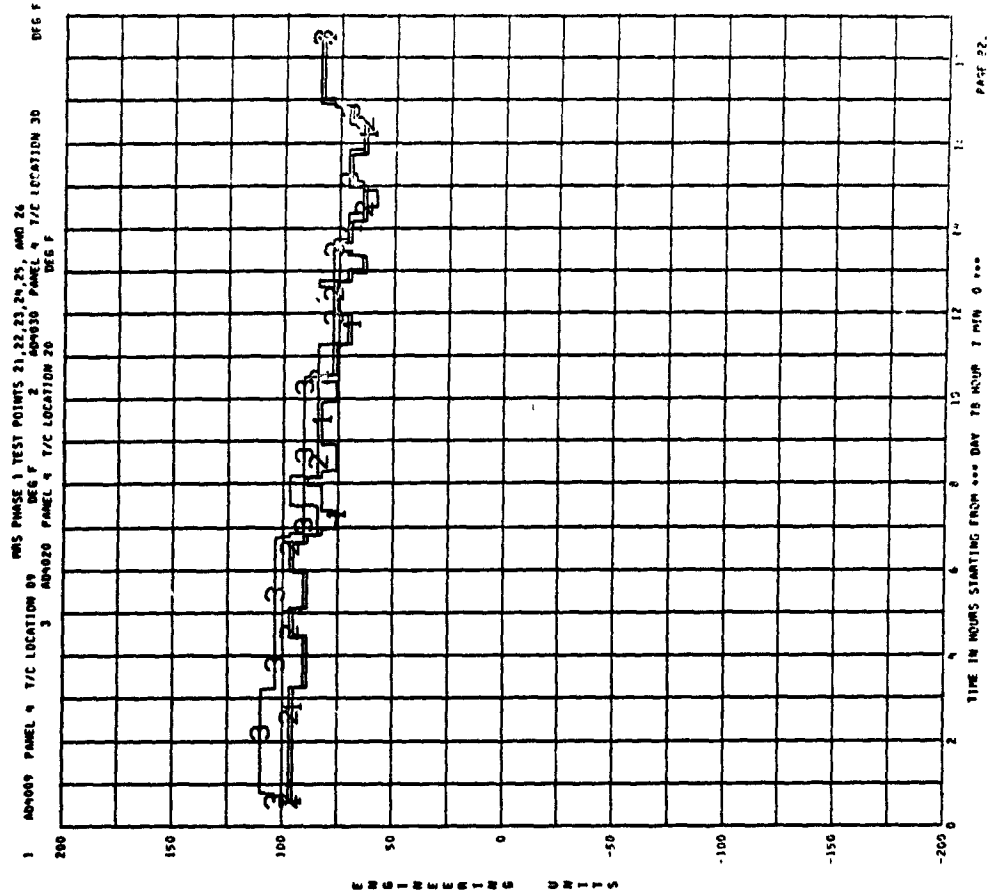
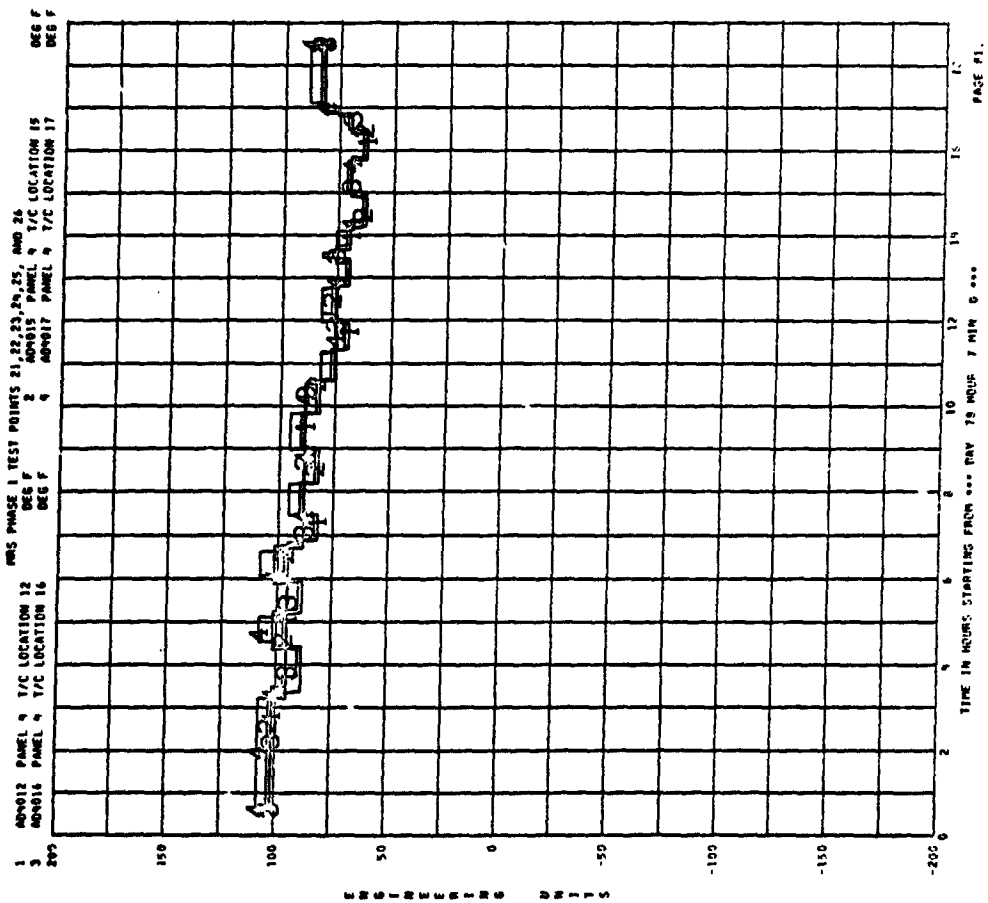
TEST POINTS	21, 22, 23, 24, 25, AND 26	DEF. F	2	AC3018	PANEL 3	T/C LOCATION 10	DEF. F	
1	AC3011	PANEL 3	T/C LOCATION 11	DEF. F	2	AC3018	PANEL 3	T/C LOCATION 10
2	AC3020	PANEL 3	T/C LOCATION 20	DEF. F	3	AC3020	PANEL 3	T/C LOCATION 20

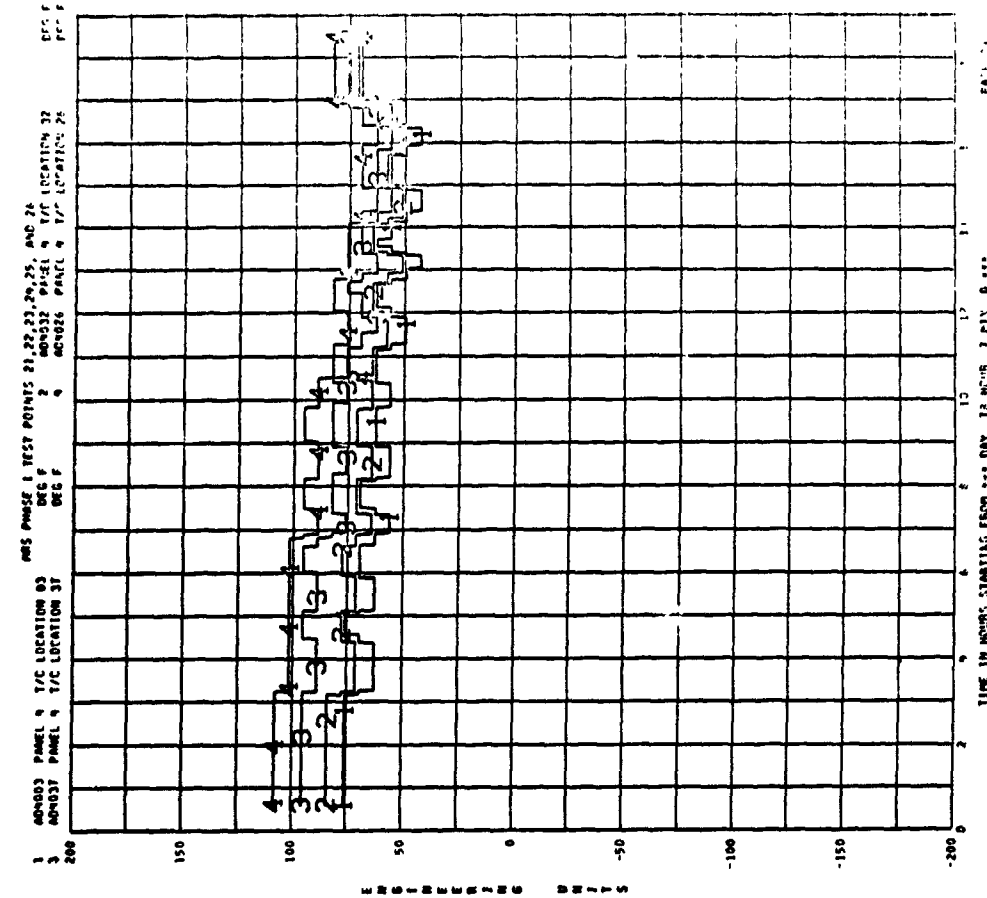
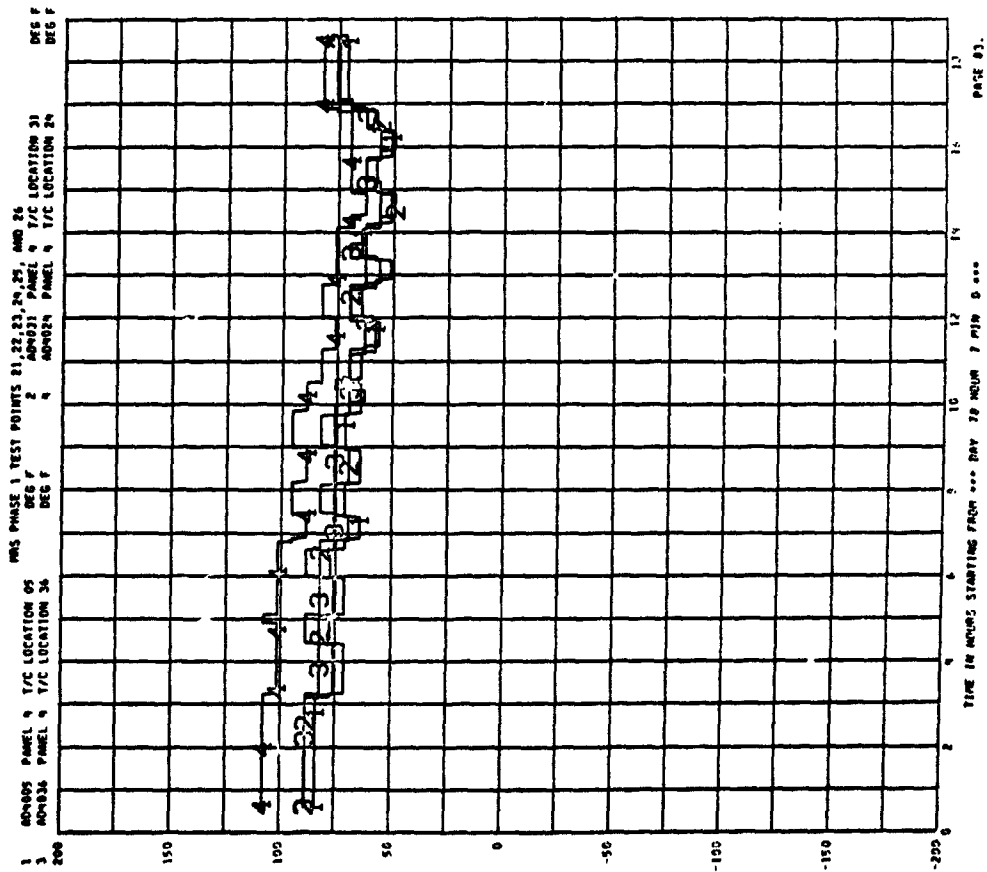


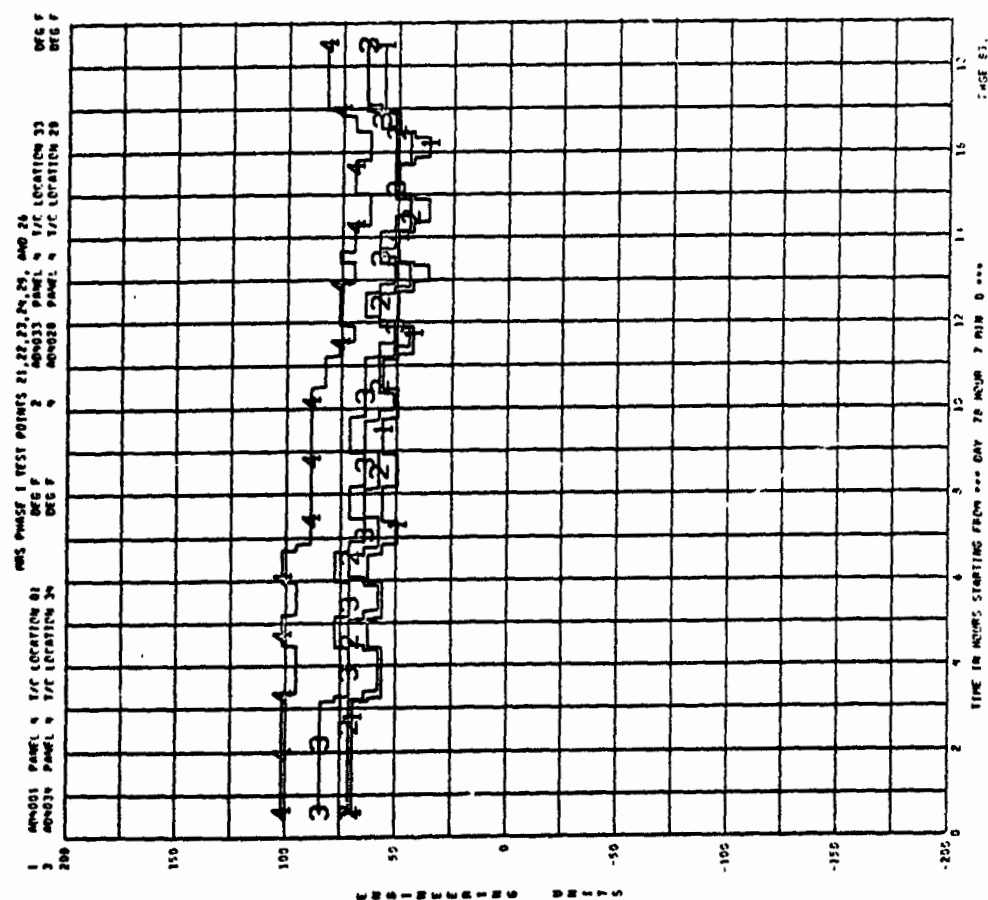
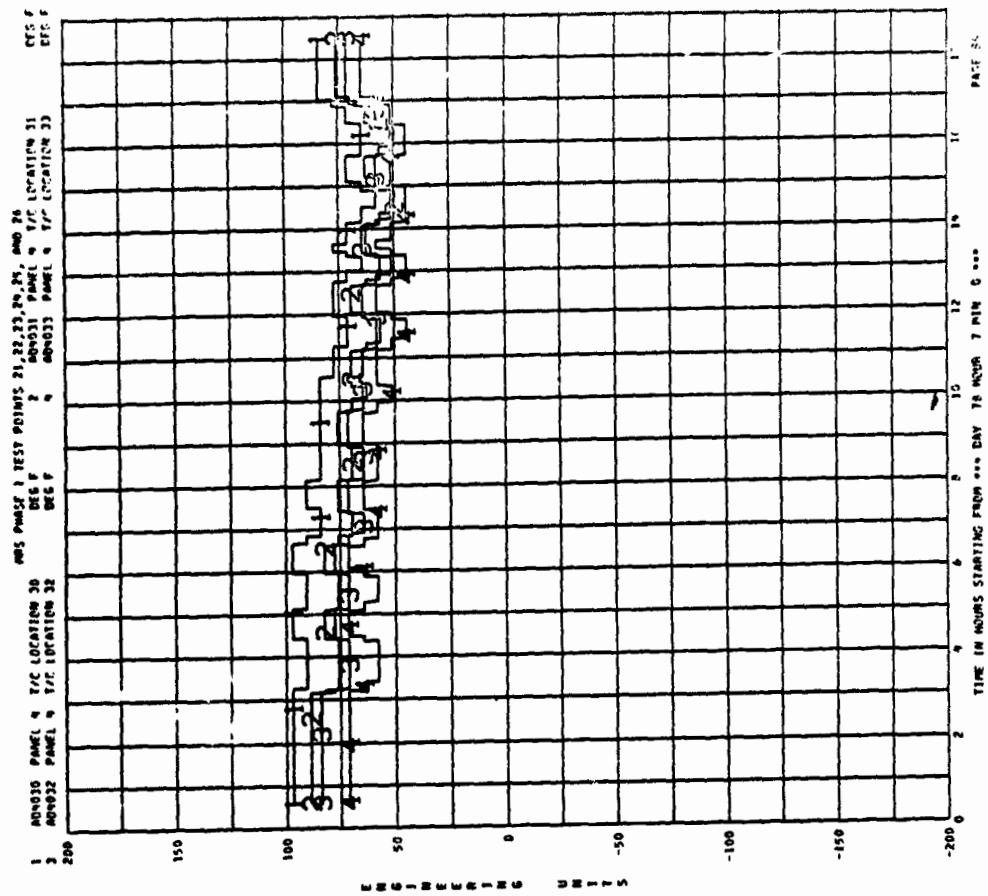






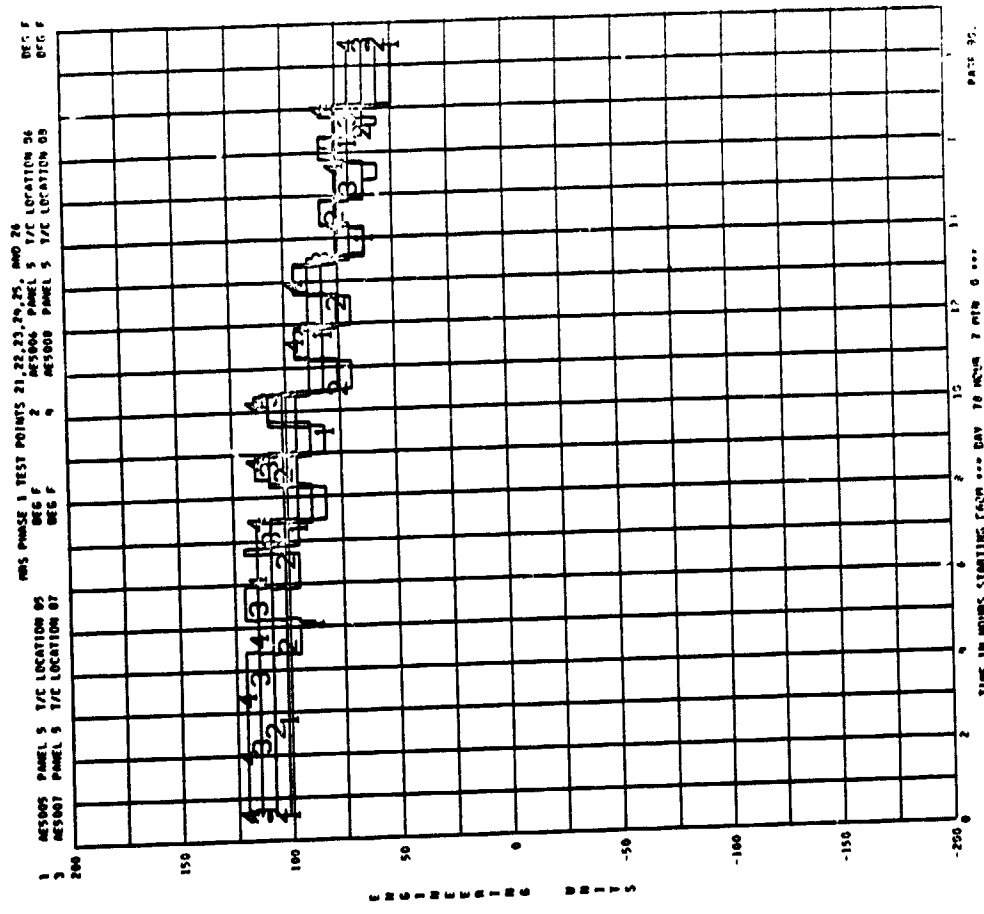
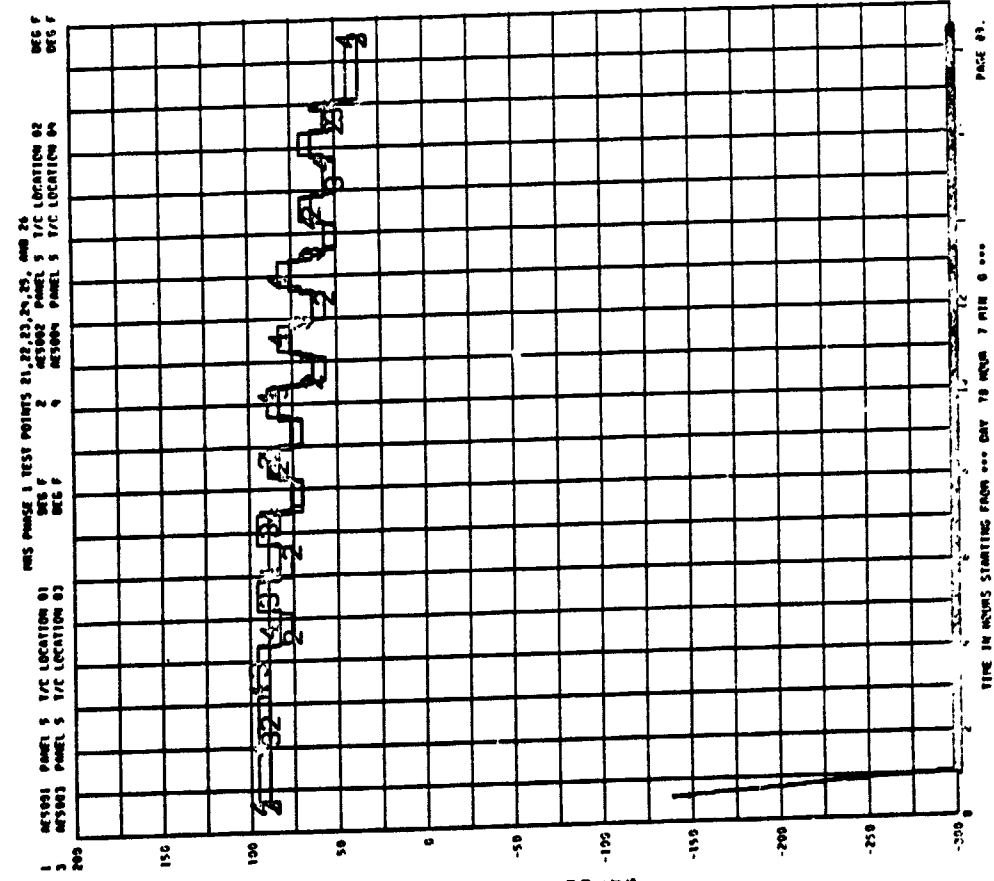


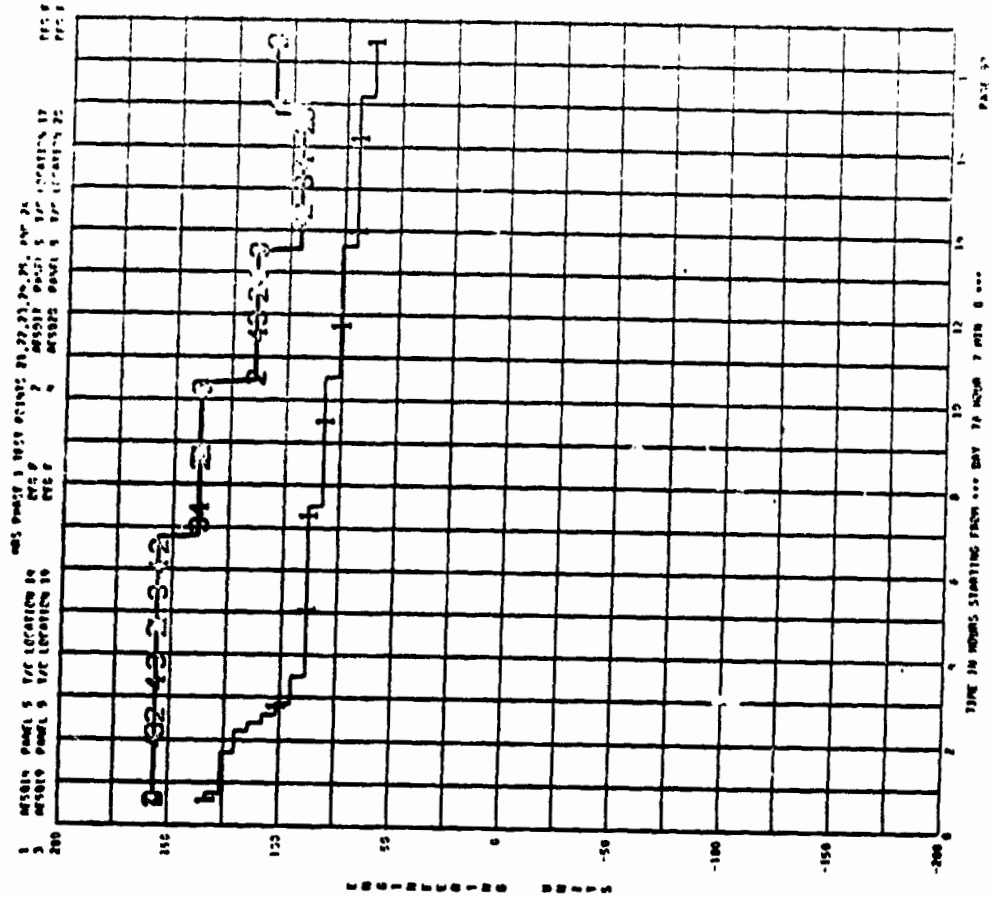
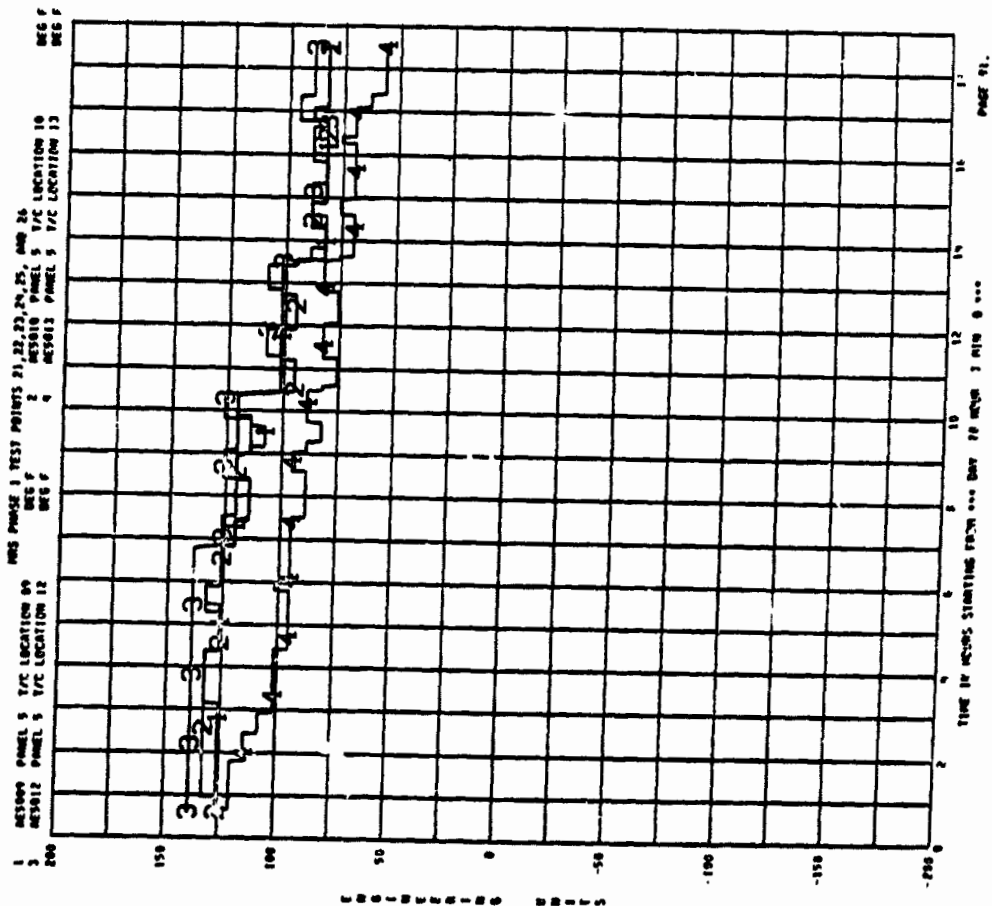


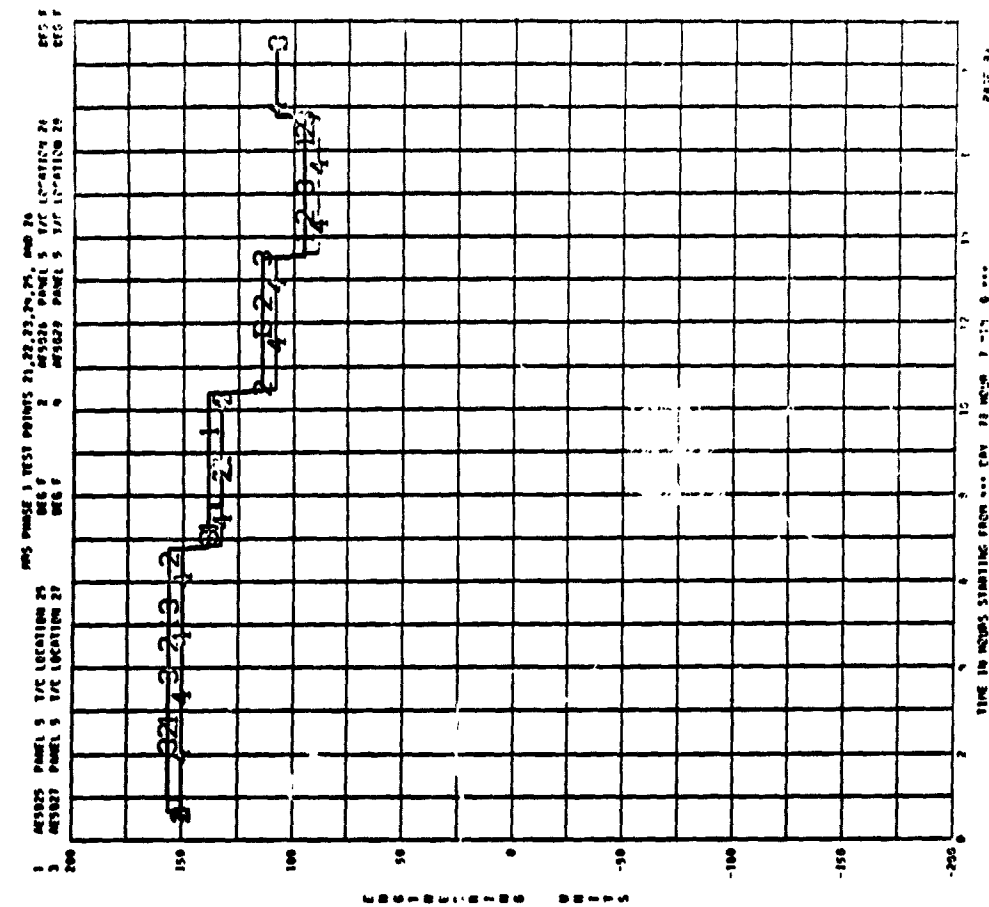
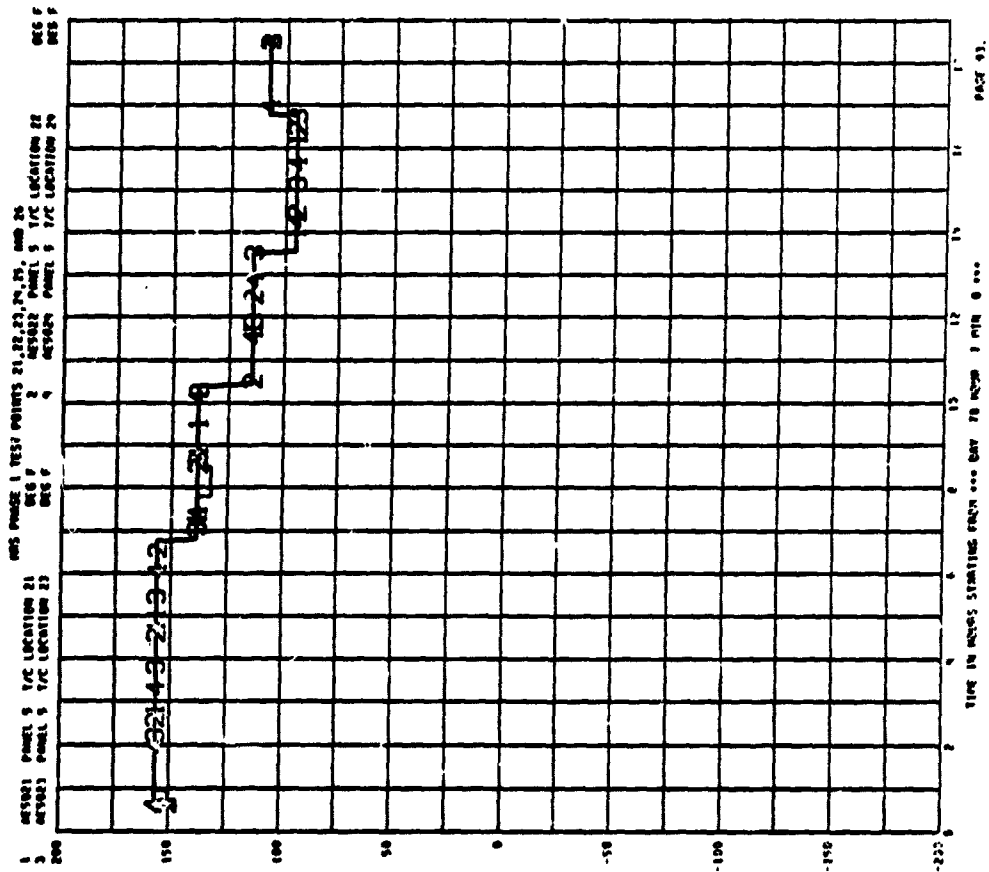




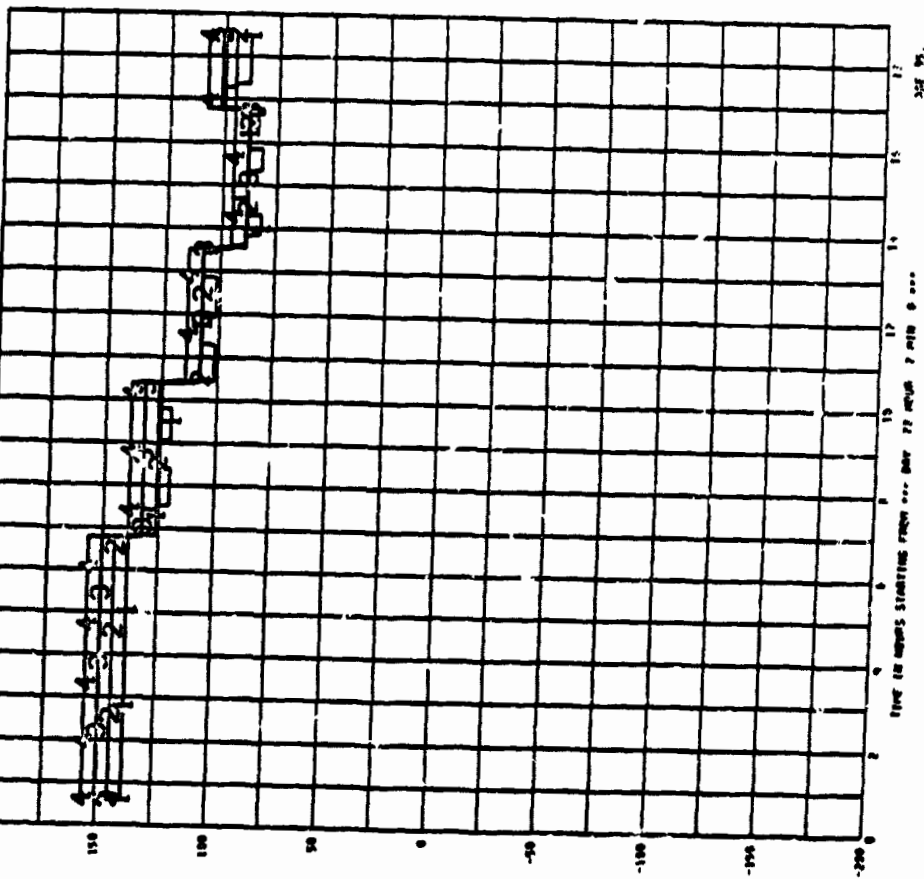




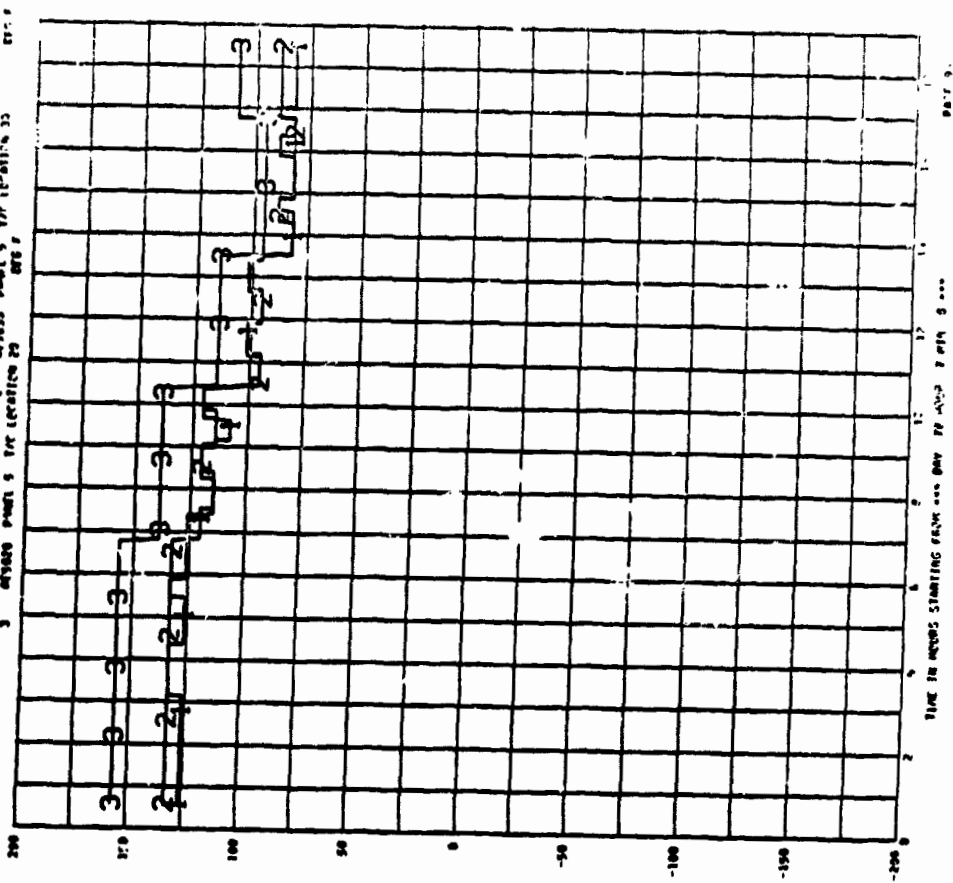


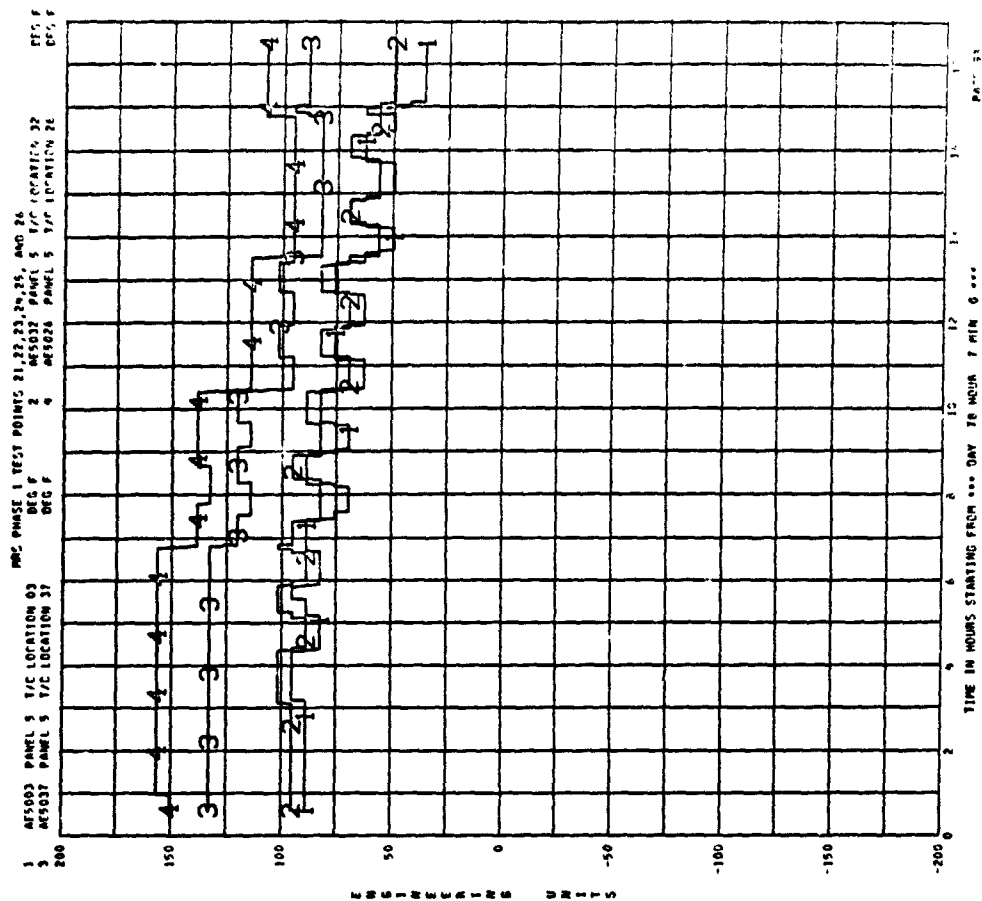
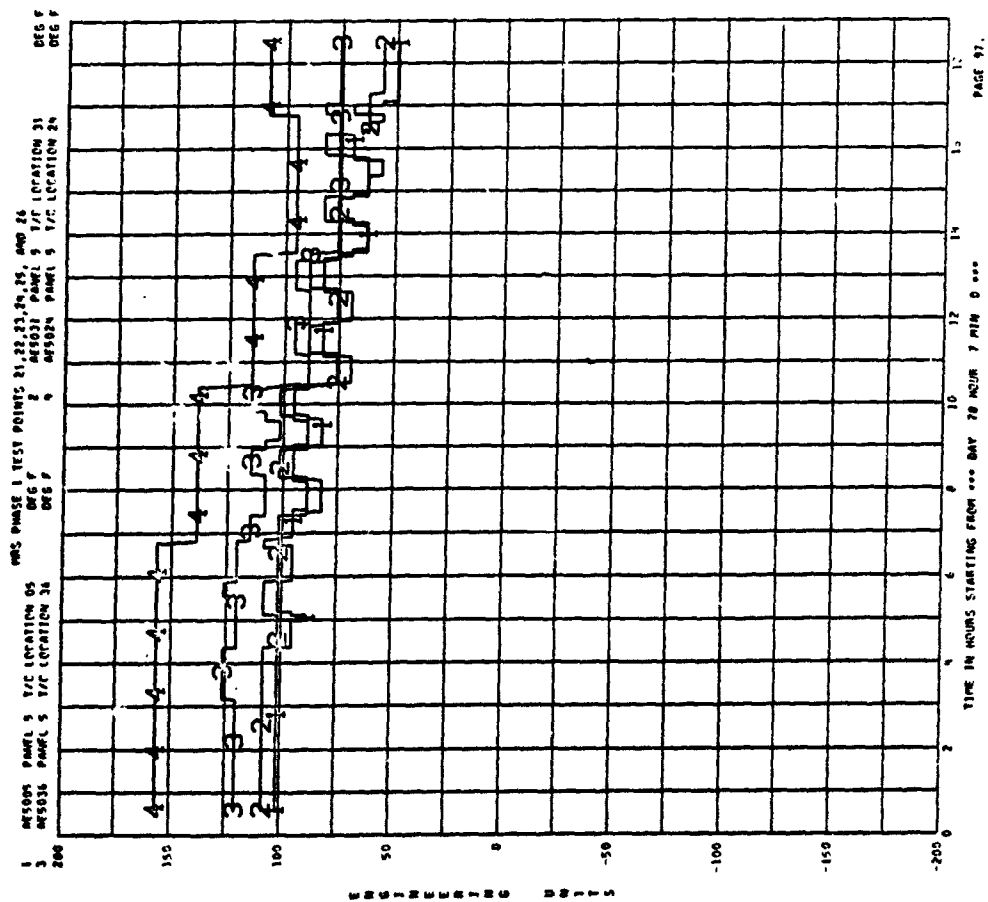


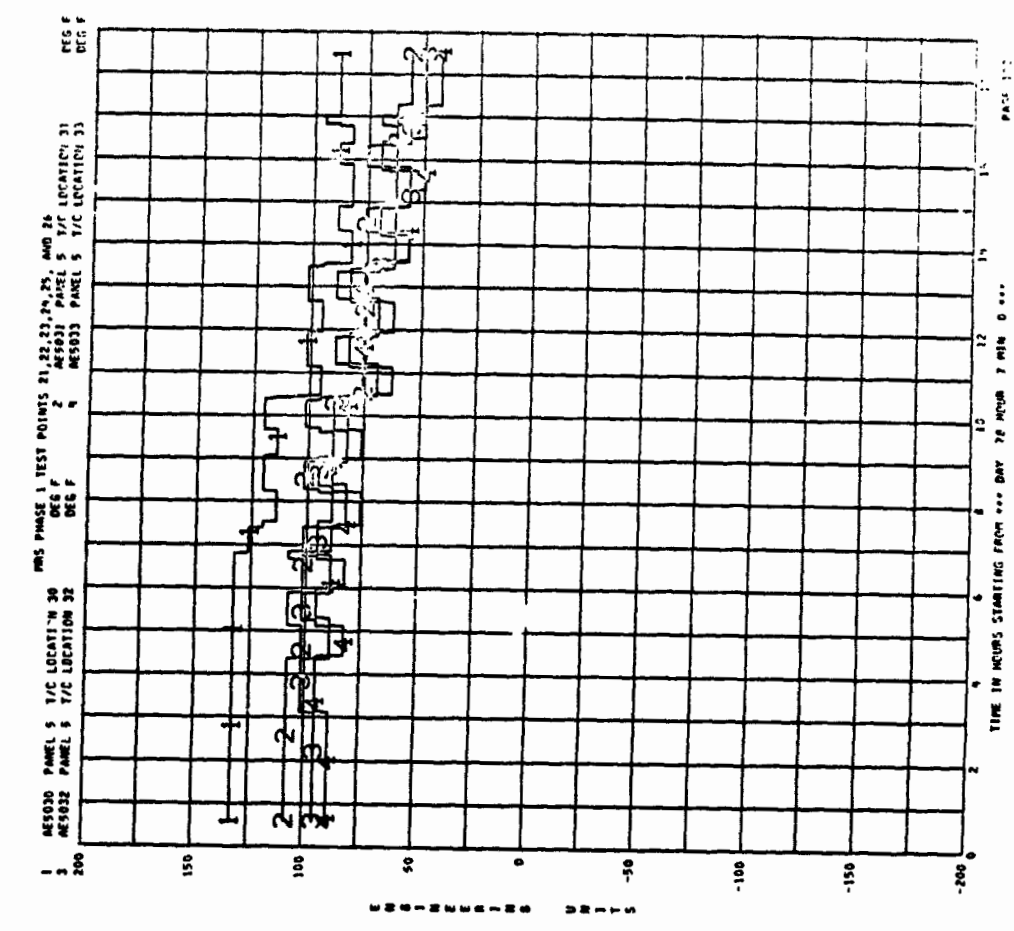
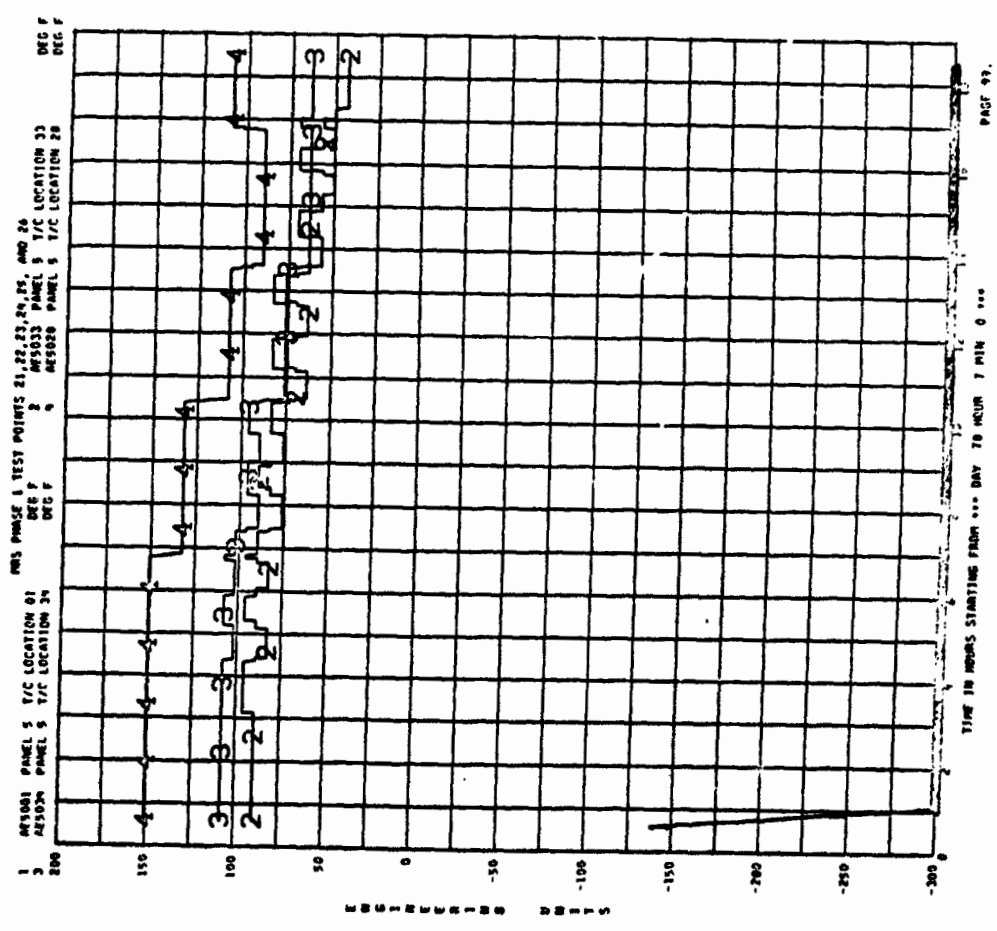
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 8. ACT022 PANEL 5 T/C LOCATION 22  
 9. ACT023 PANEL 5 T/C LOCATION 23  
 10. ACT024 PANEL 5 T/C LOCATION 24  
 11. ACT025 PANEL 5 T/C LOCATION 25  
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 13. ACT027 PANEL 5 T/C LOCATION 27  
 14. ACT028 PANEL 5 T/C LOCATION 28  
 15. ACT029 PANEL 5 T/C LOCATION 29  
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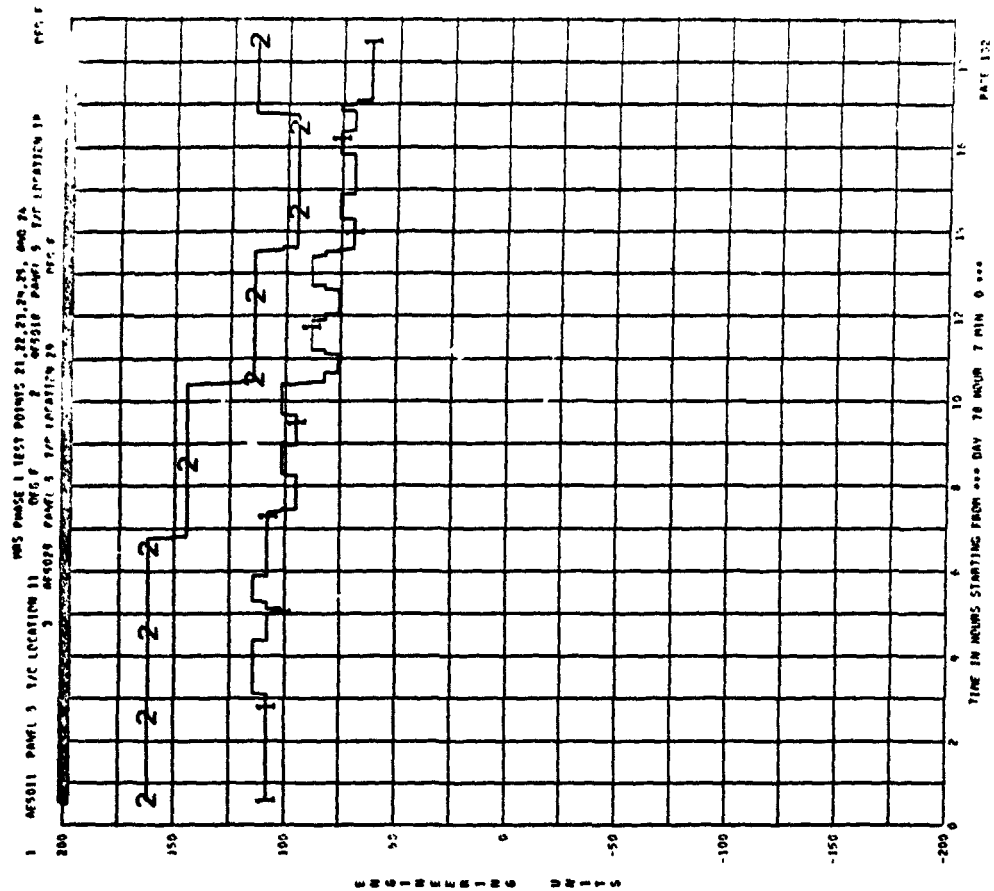
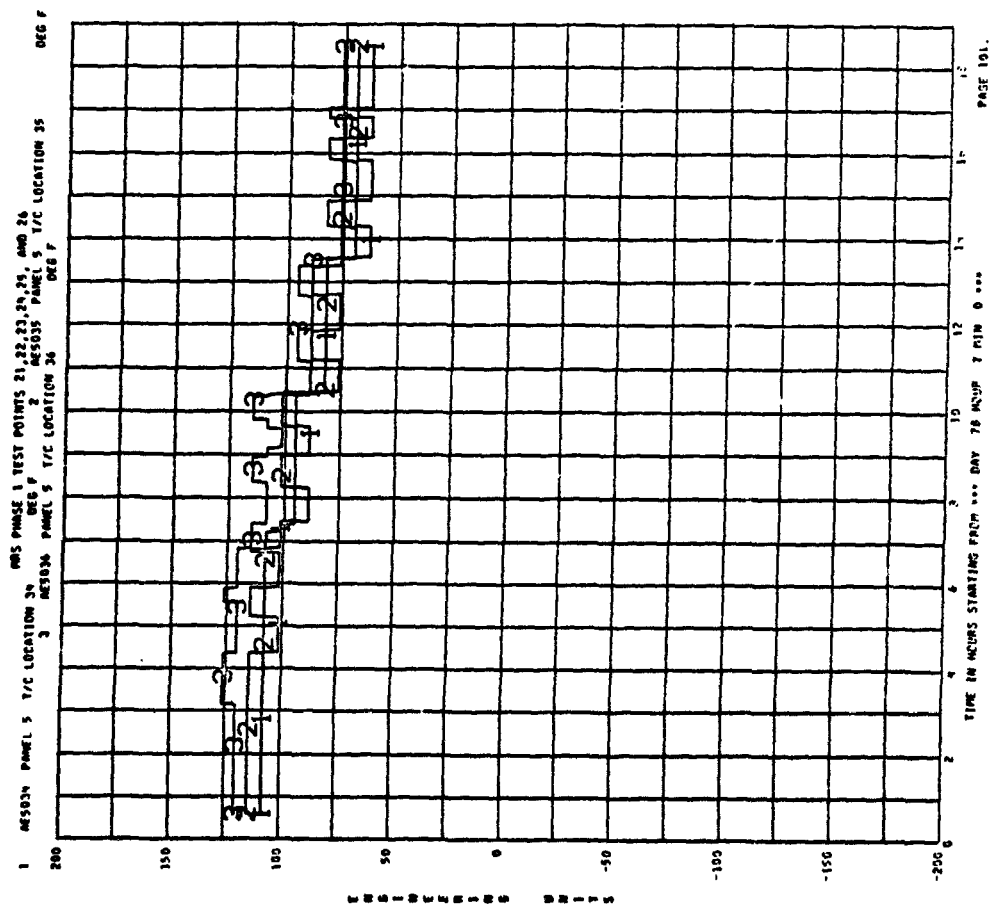


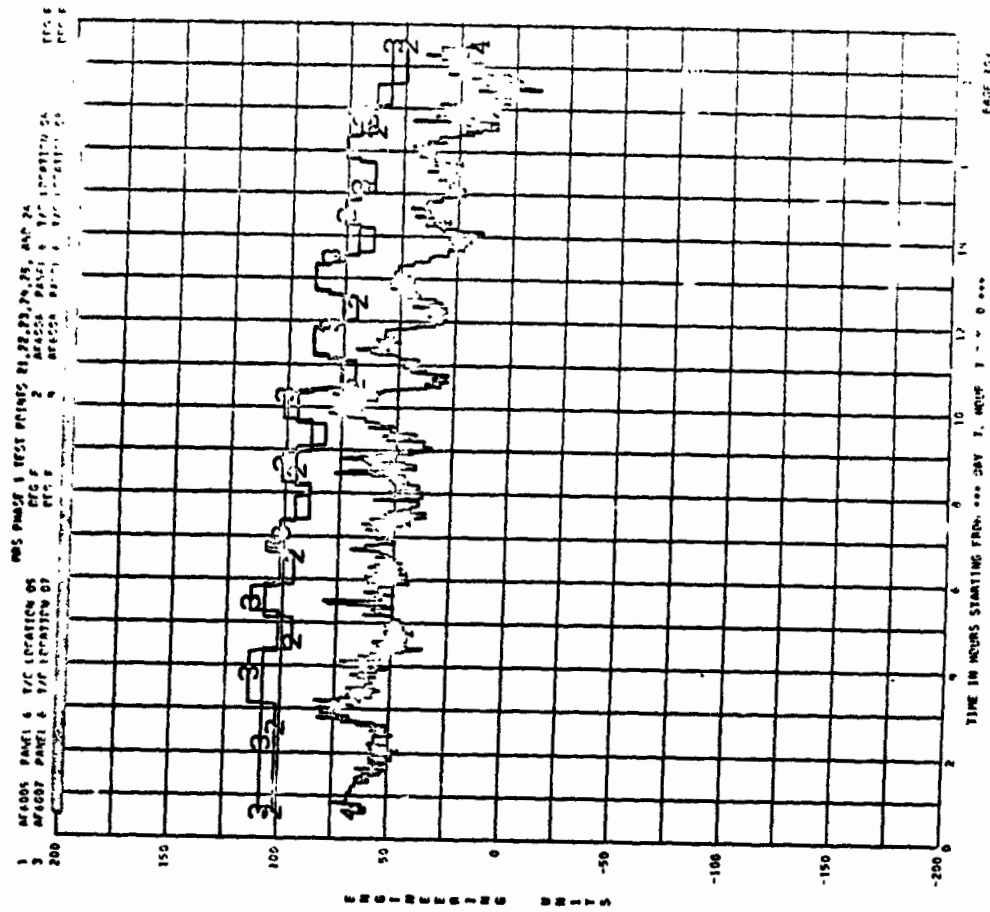
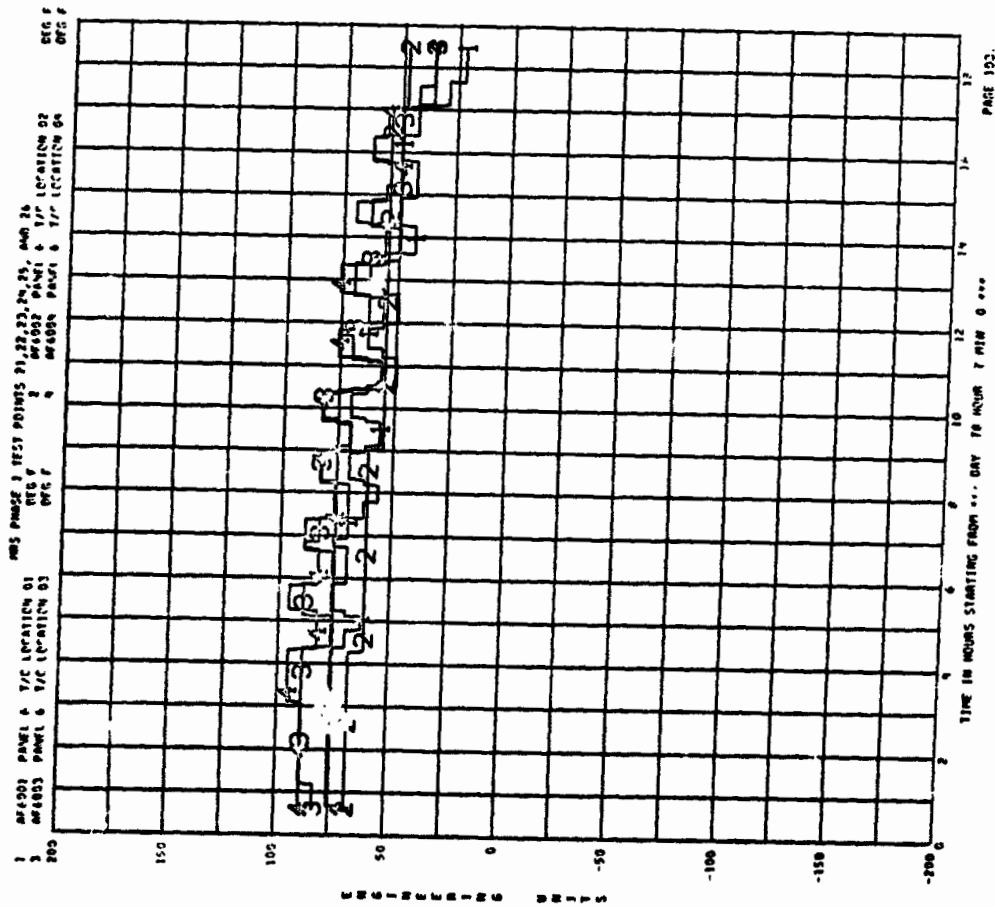
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 9. ACT008 PANEL 5 T/C LOCATION 08  
 10. ACT009 PANEL 5 T/C LOCATION 09  
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 12. ACT011 PANEL 5 T/C LOCATION 11  
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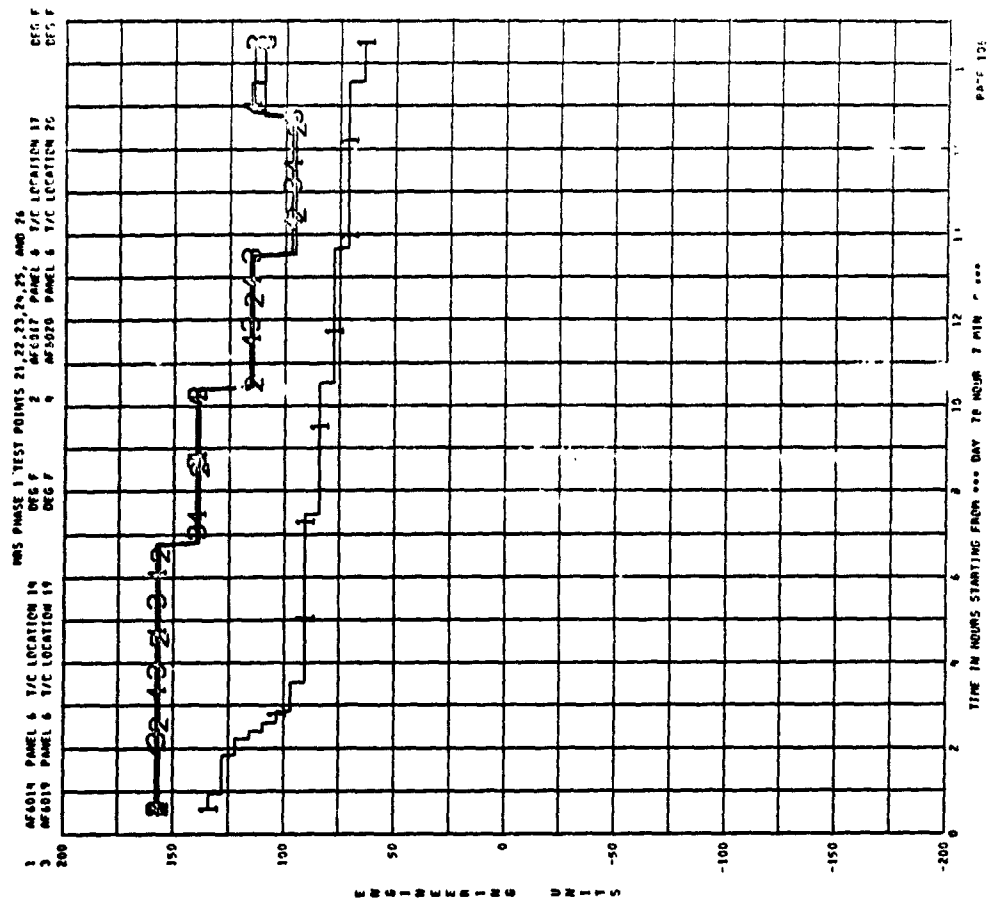
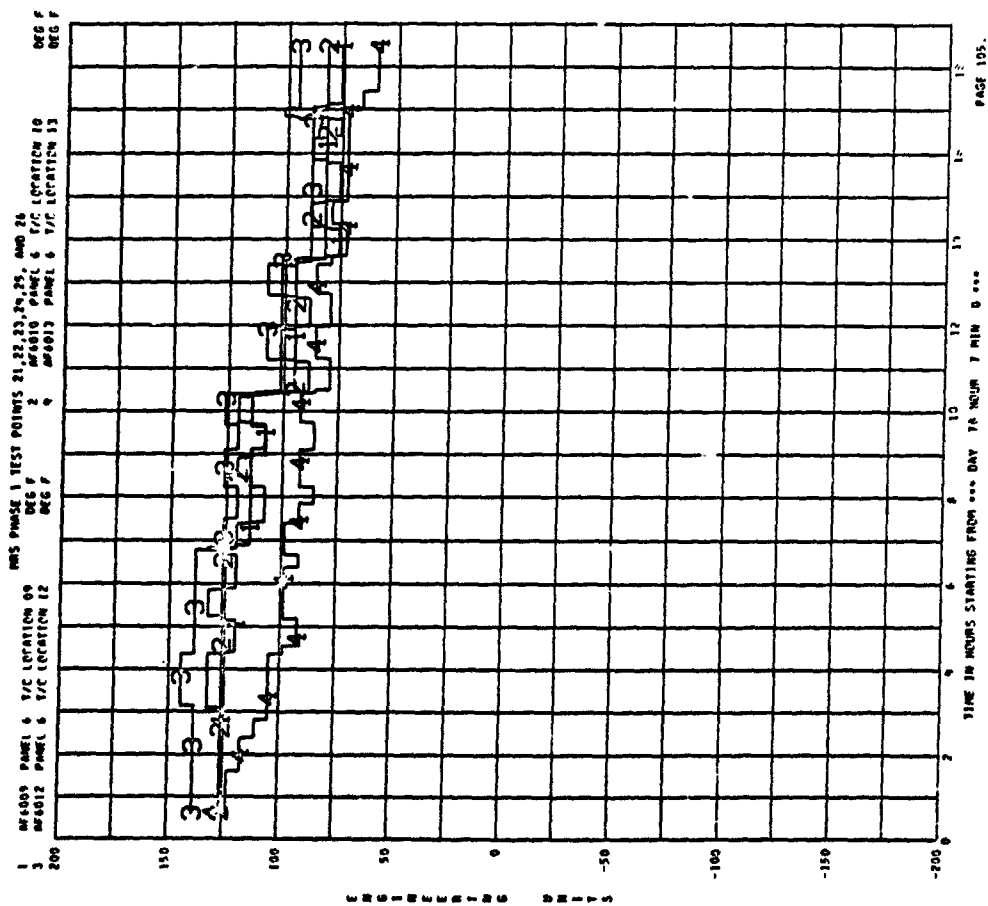


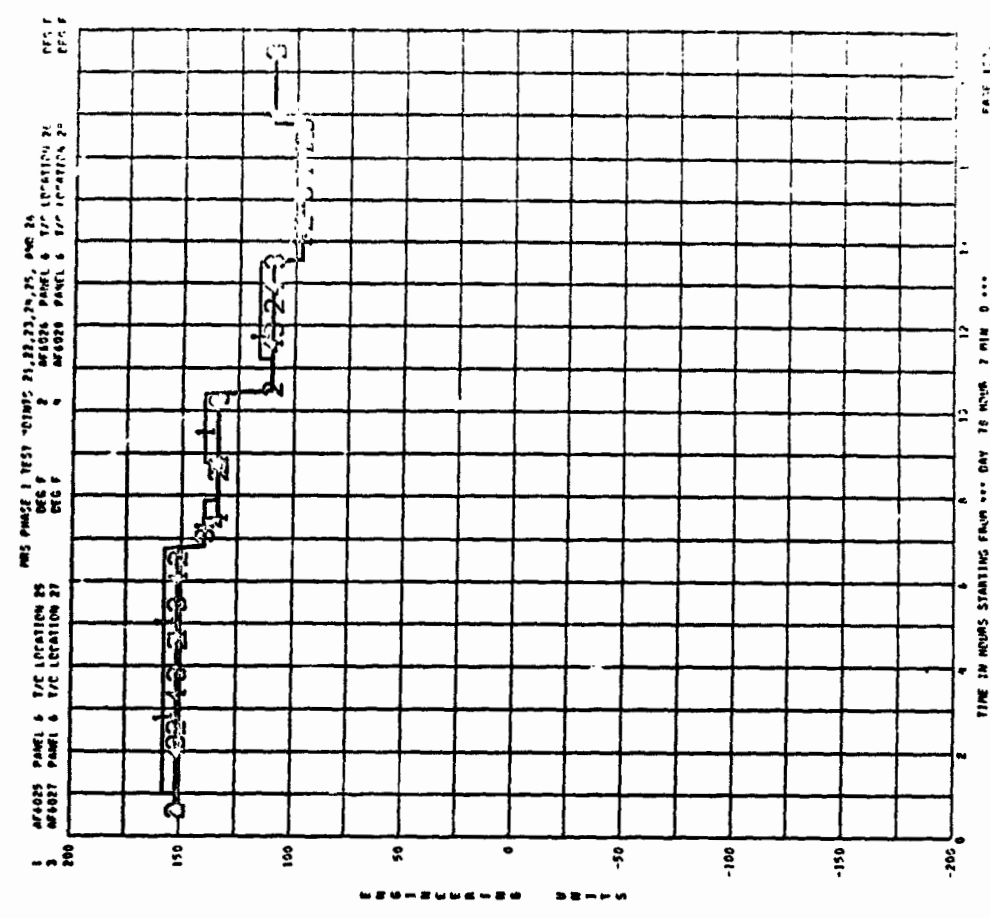
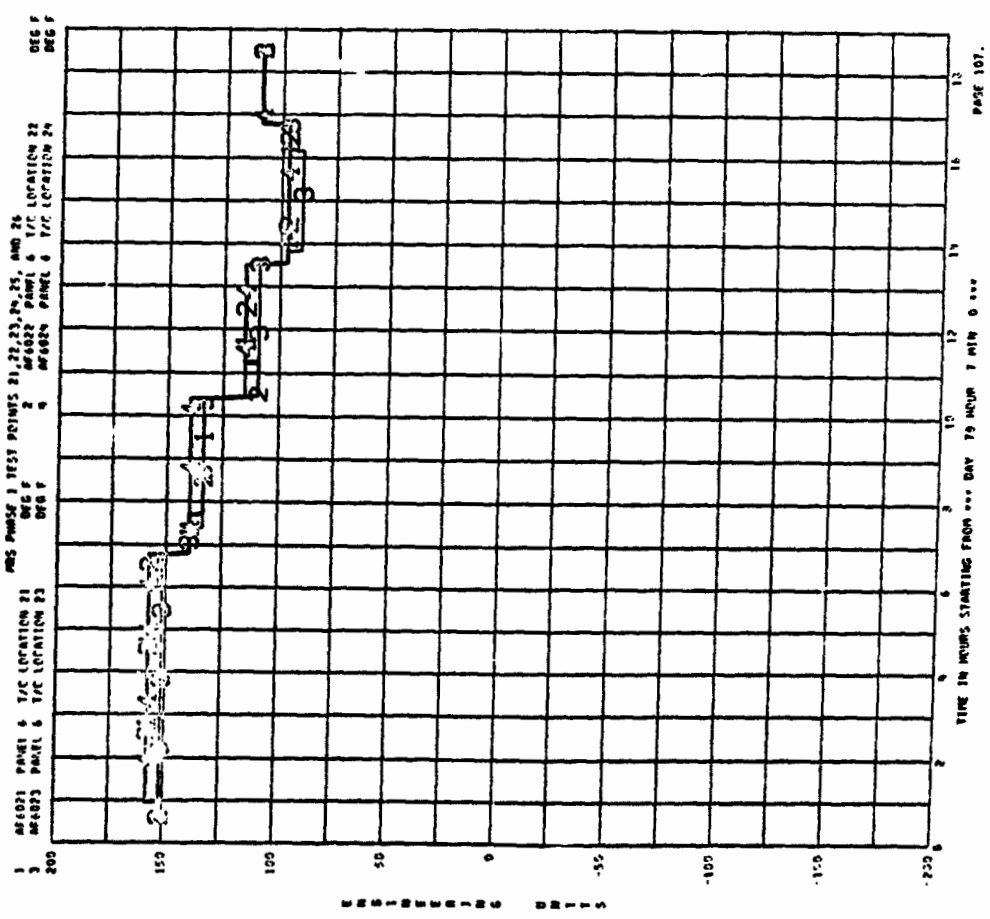




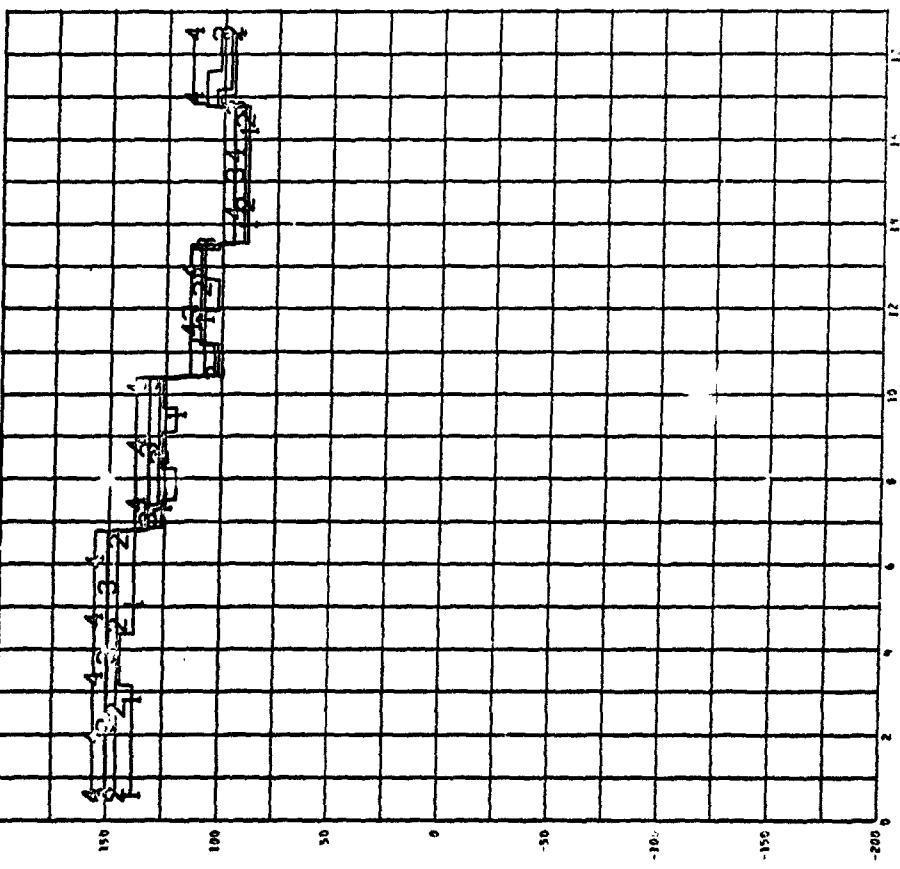




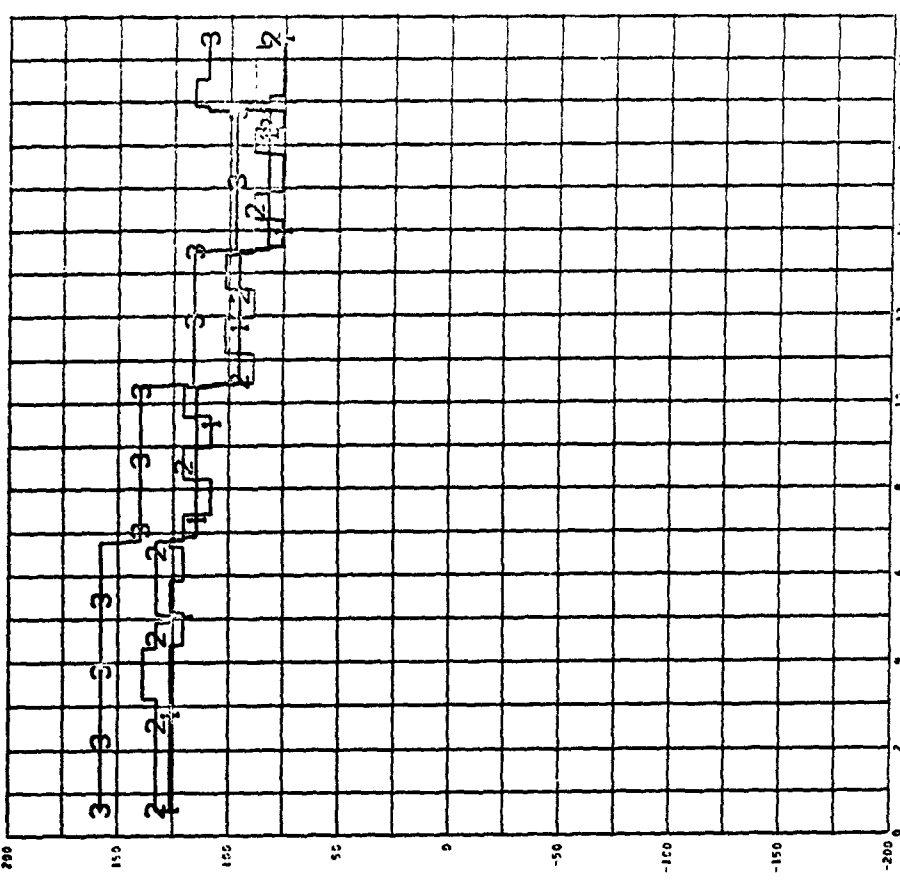


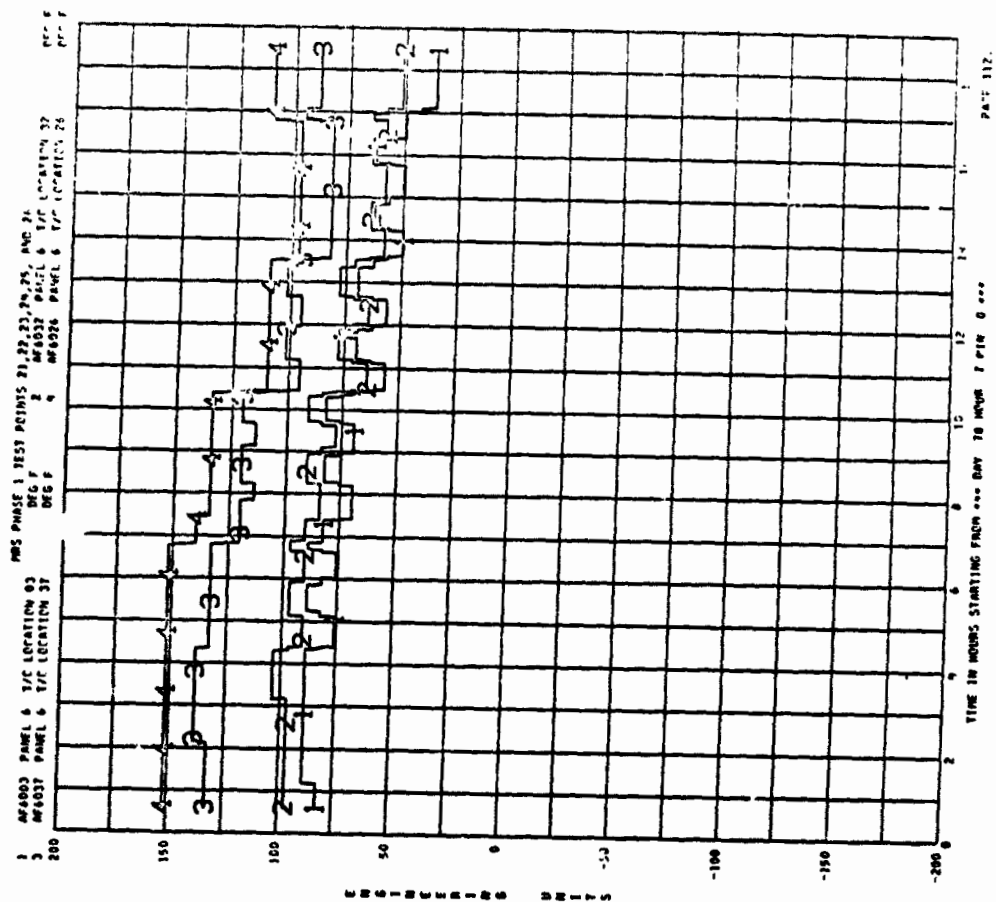
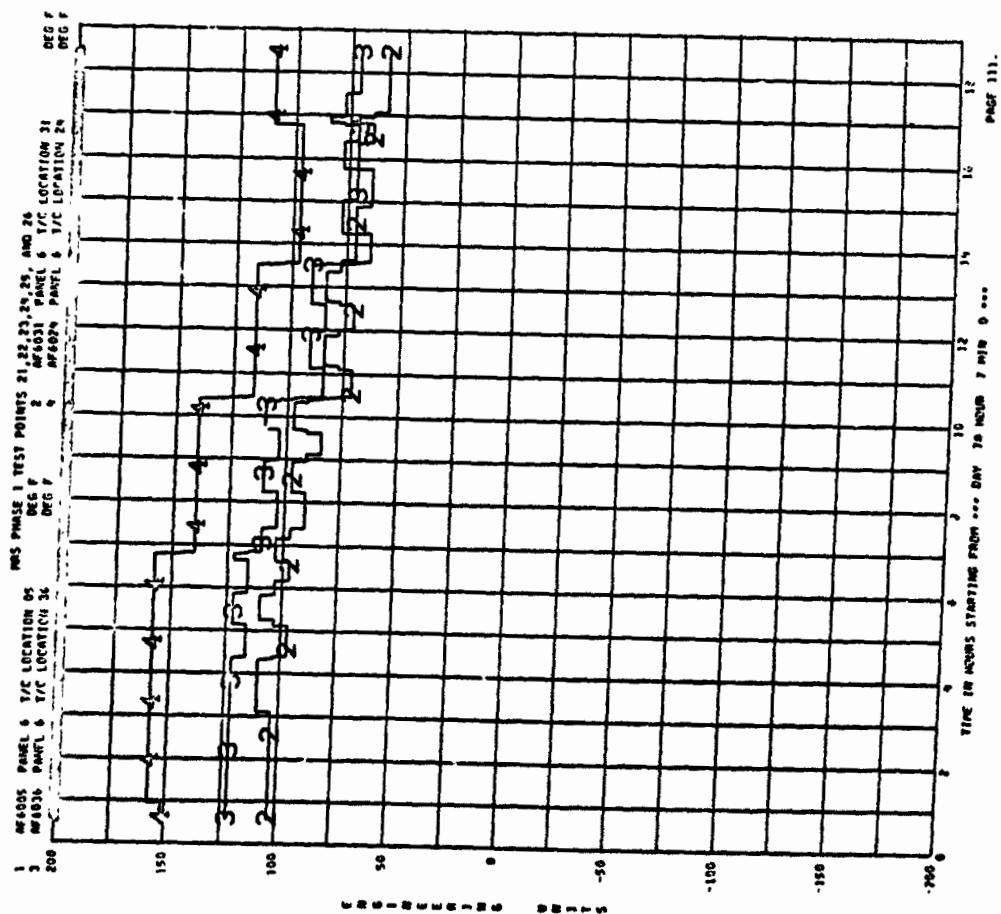


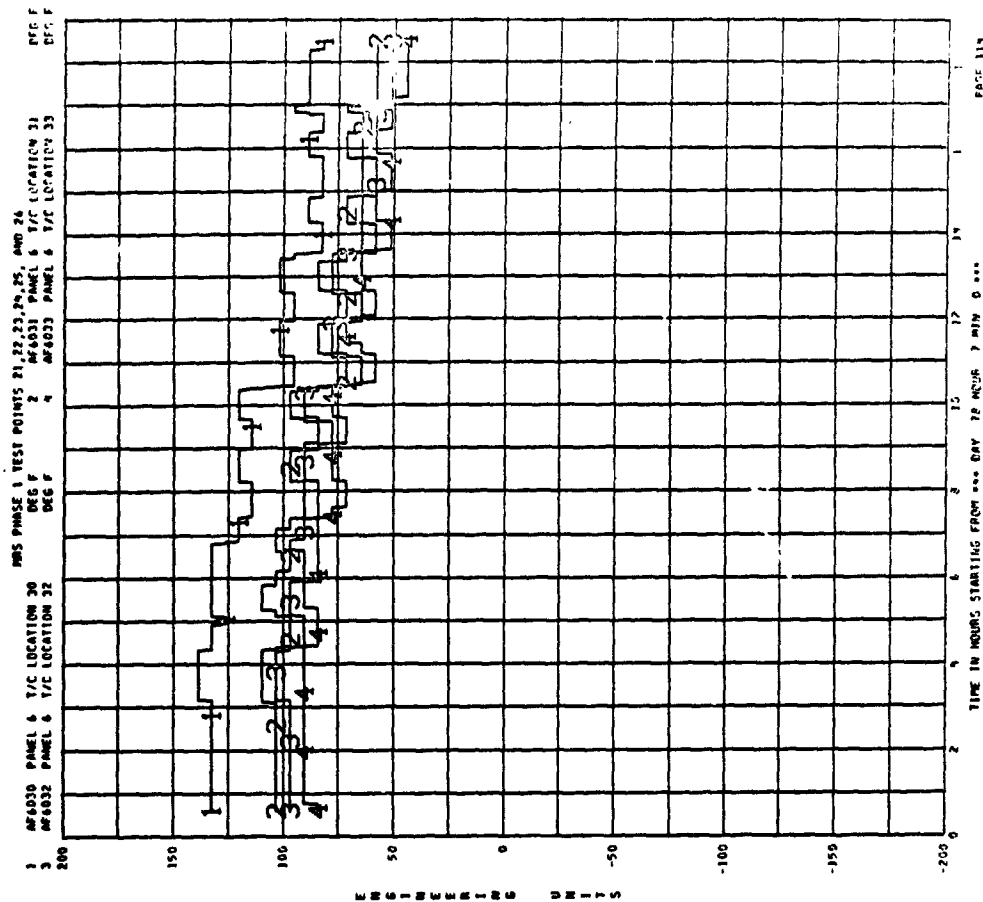
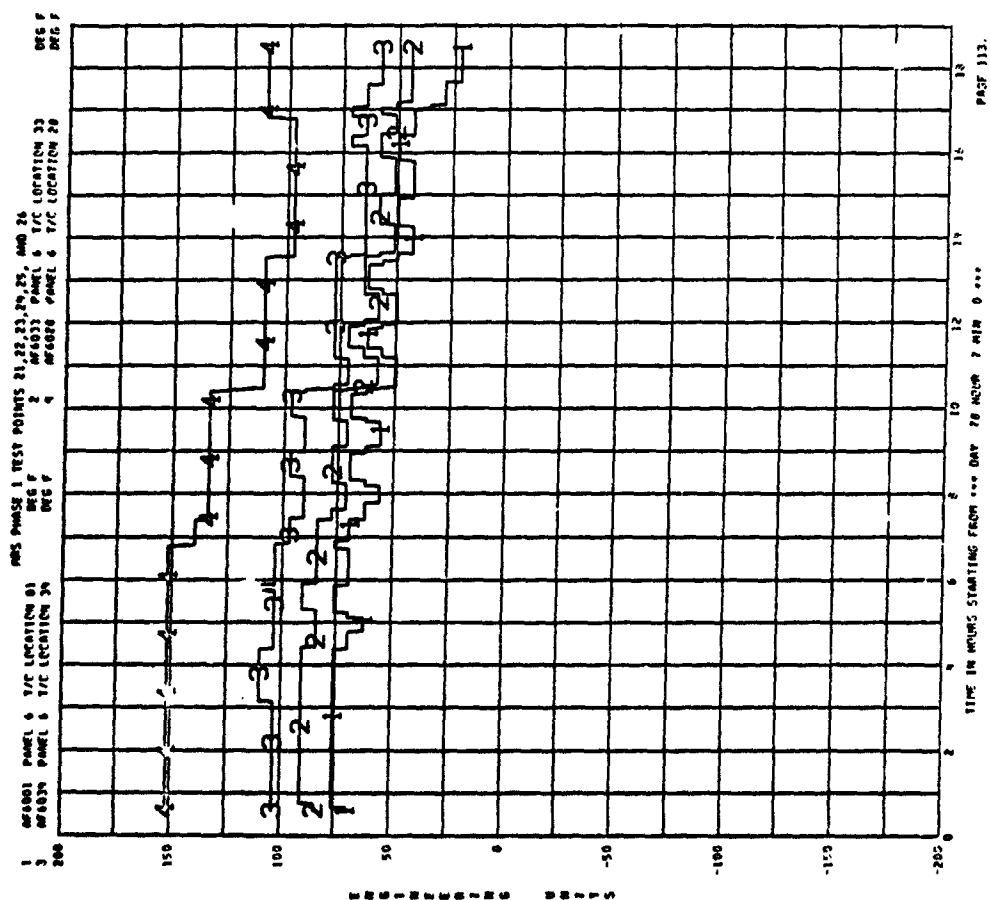
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 3 AF4016 PANEL 6 T/C LOCATION 16 DEG 7  
 4 AF4017 PANEL 6 T/C LOCATION 17 DEG 7



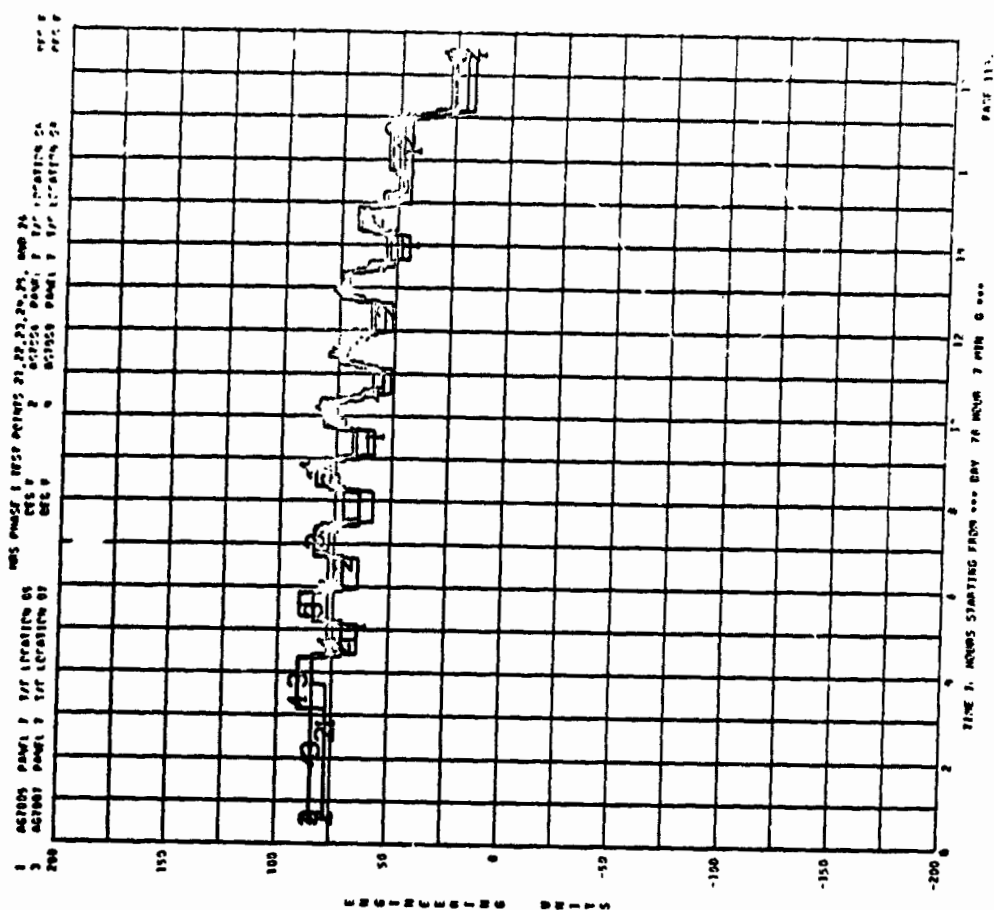
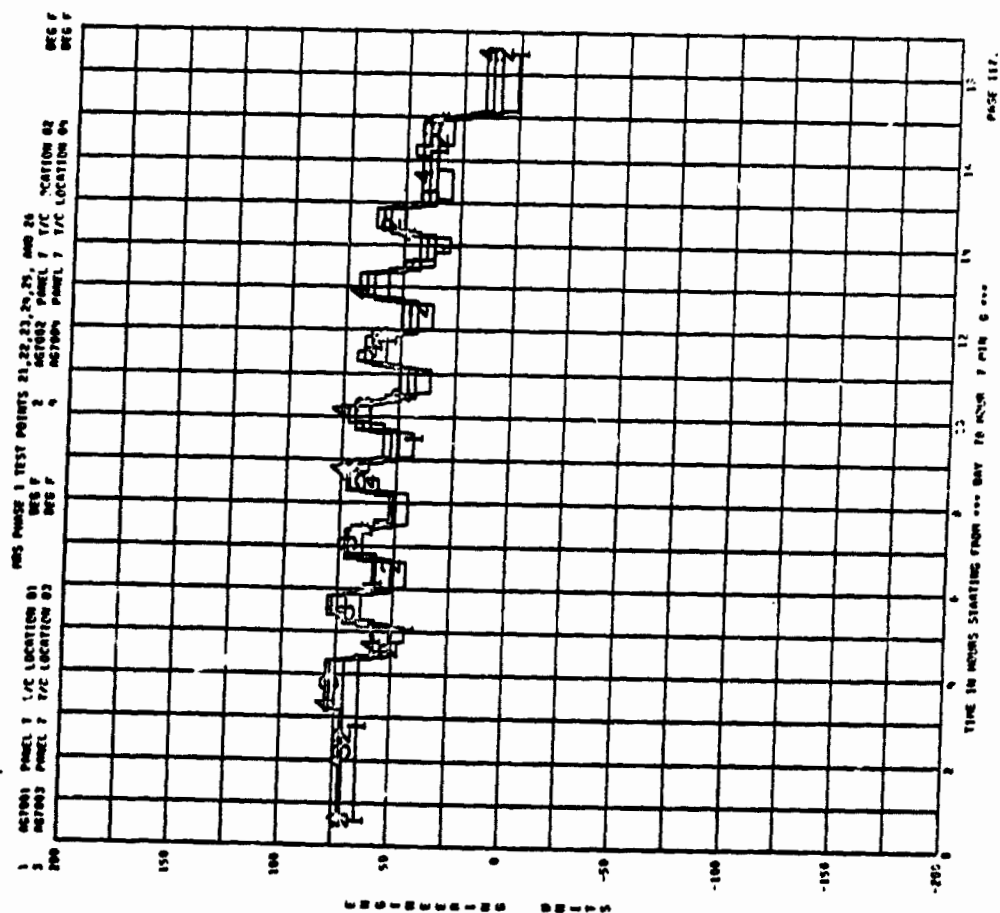
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 8 AF4016 PANEL 6 T/C LOCATION 16 DEG 7  
 9 AF4017 PANEL 6 T/C LOCATION 17 DEG 7

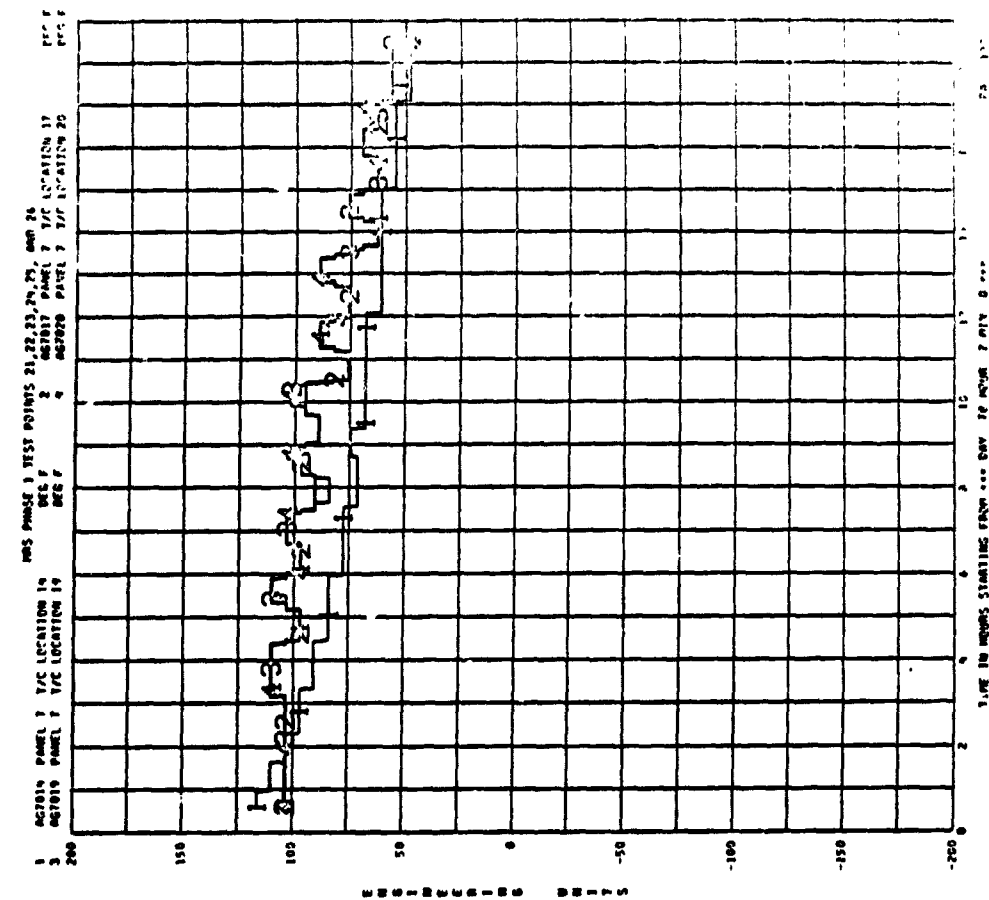
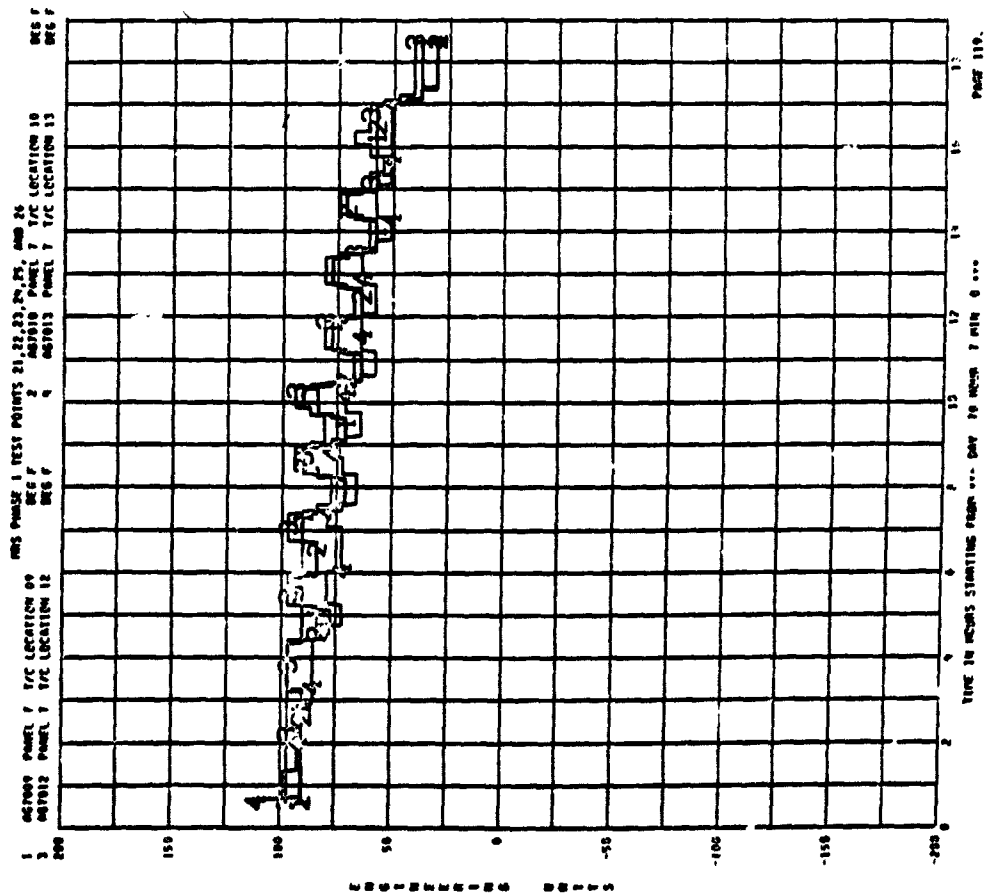




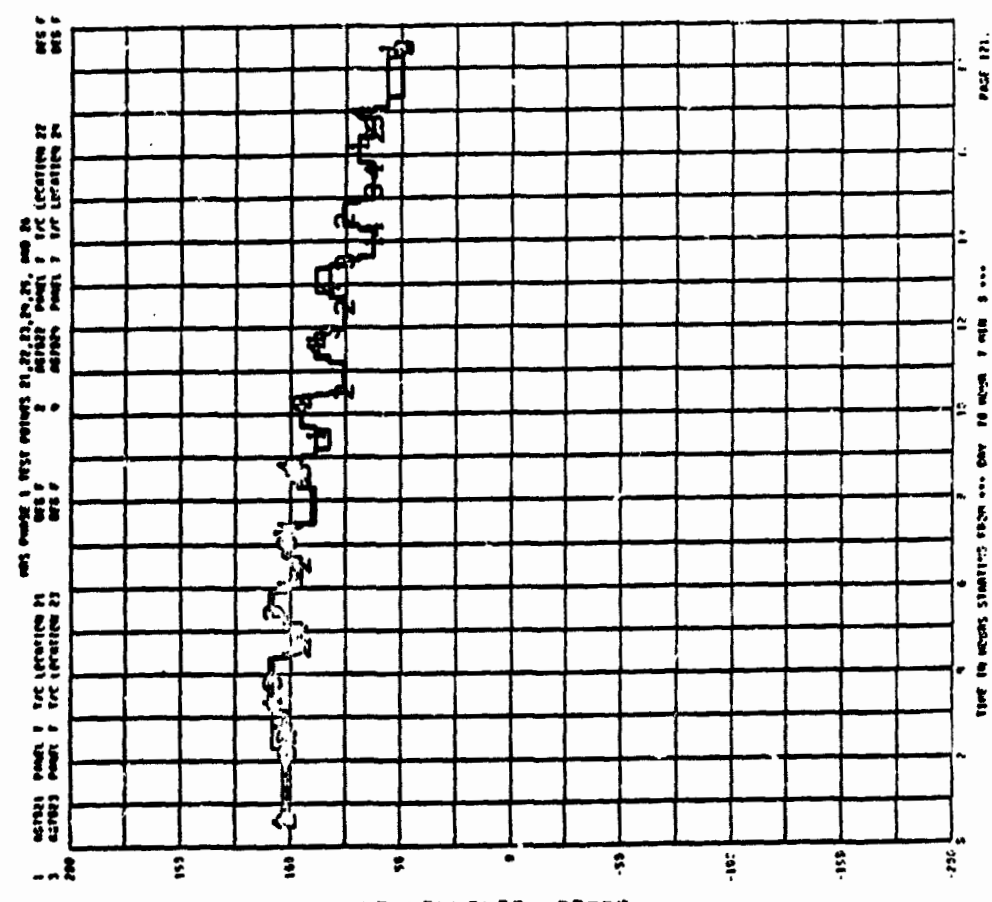
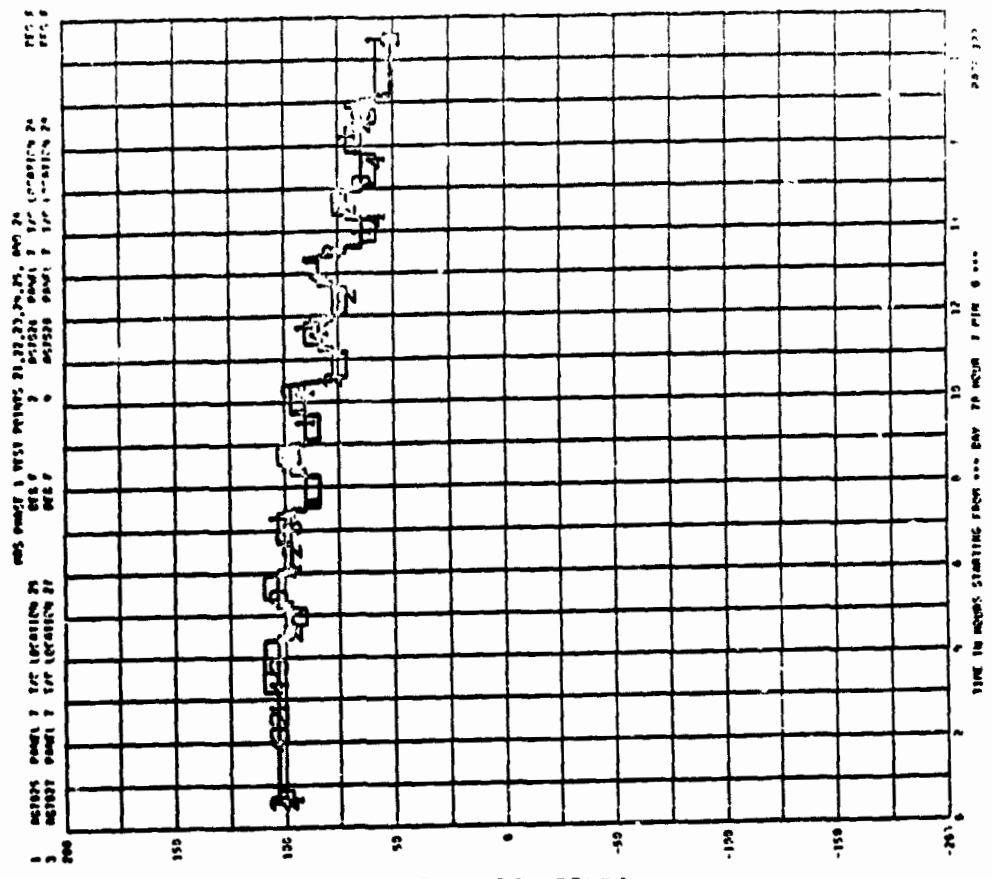




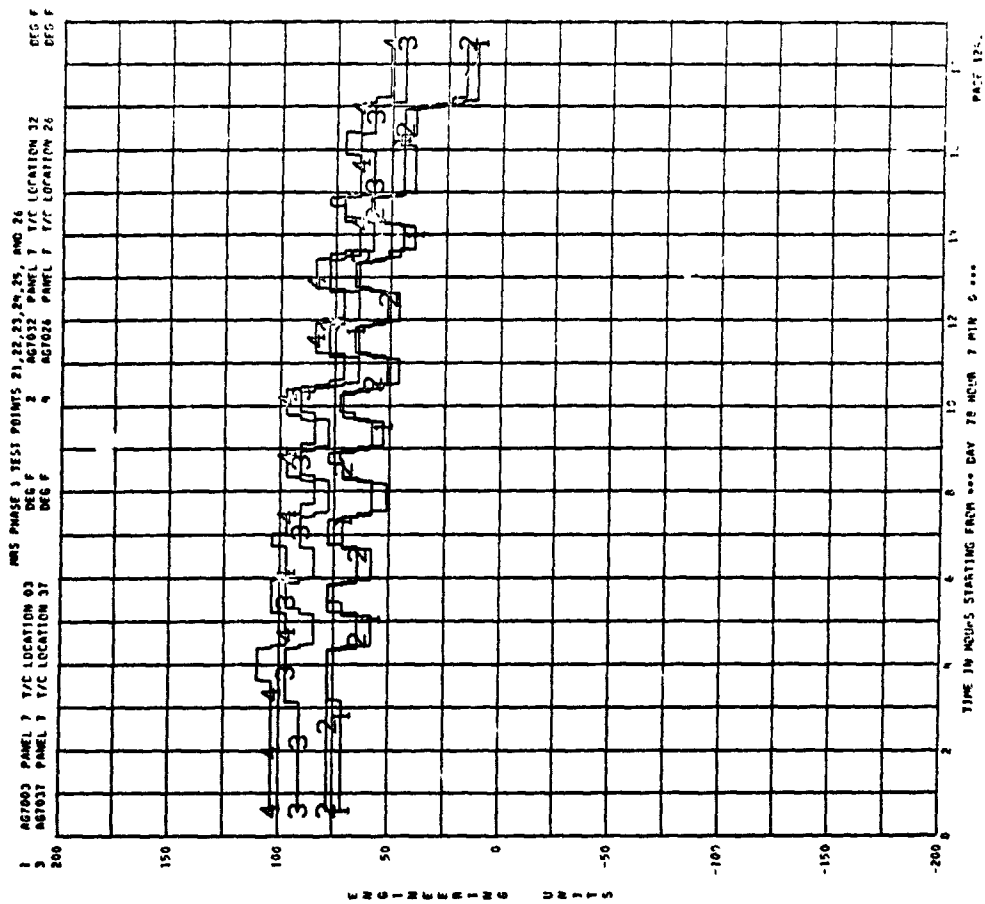
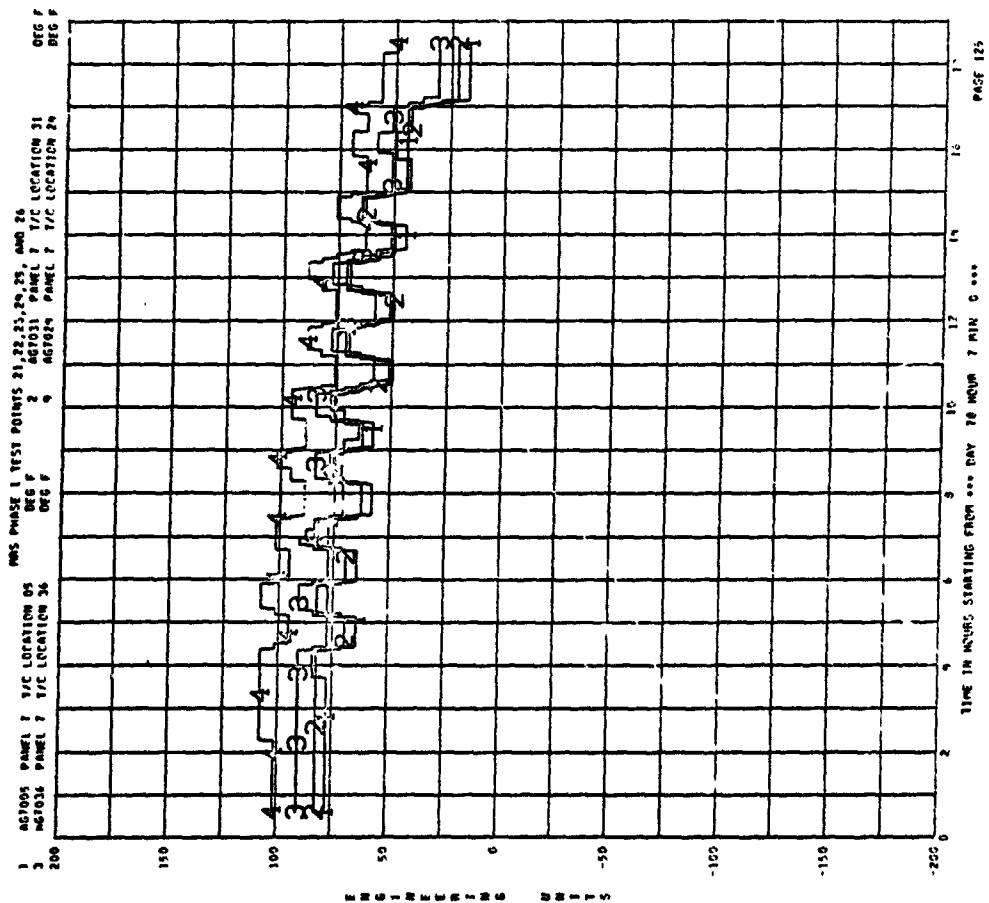


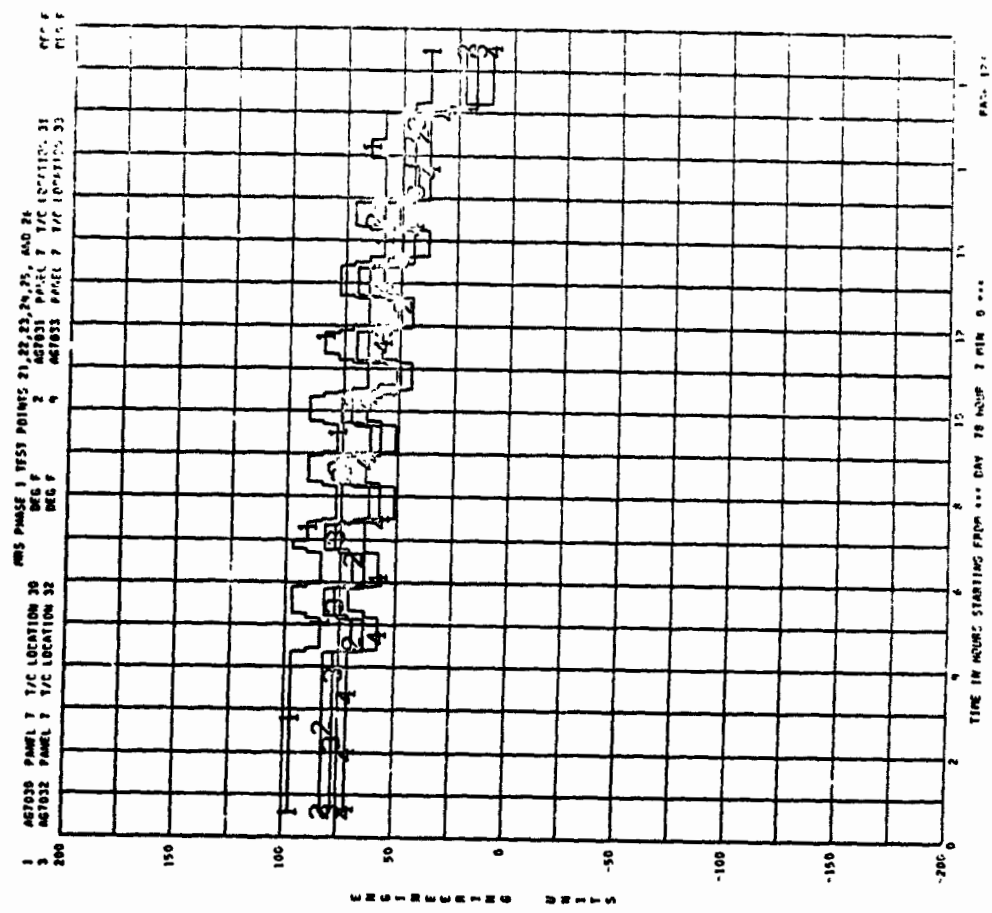
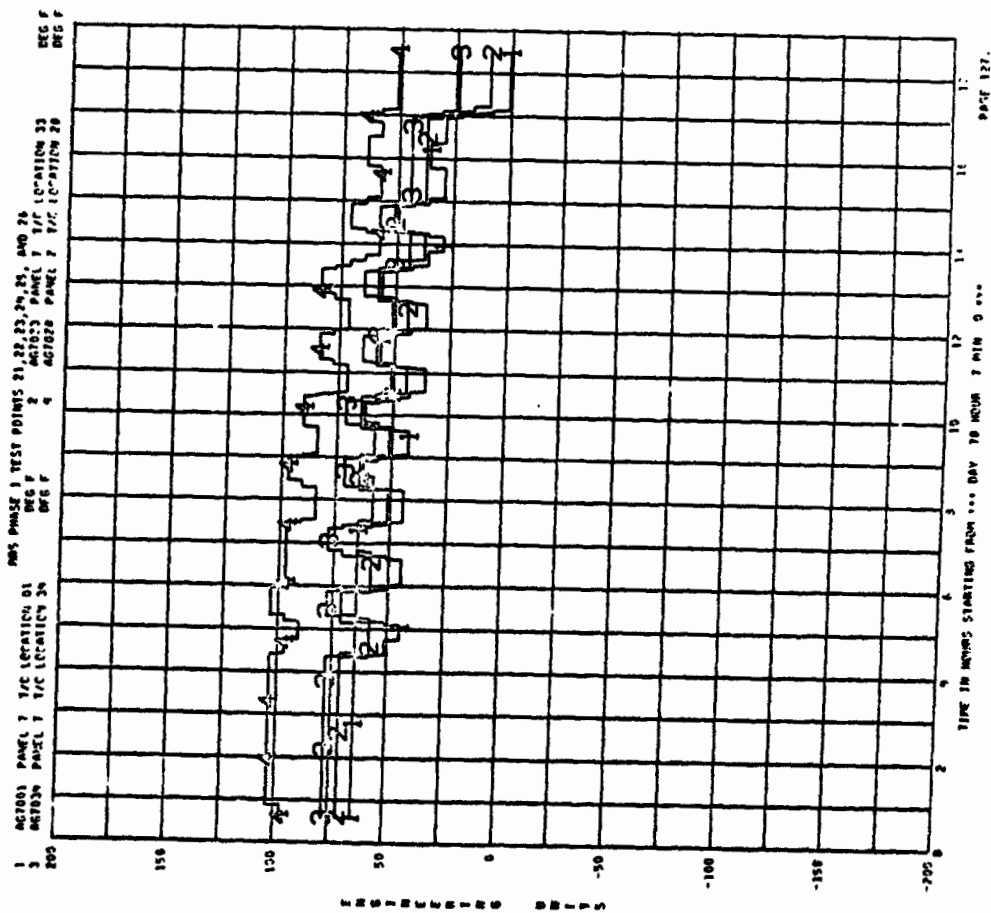


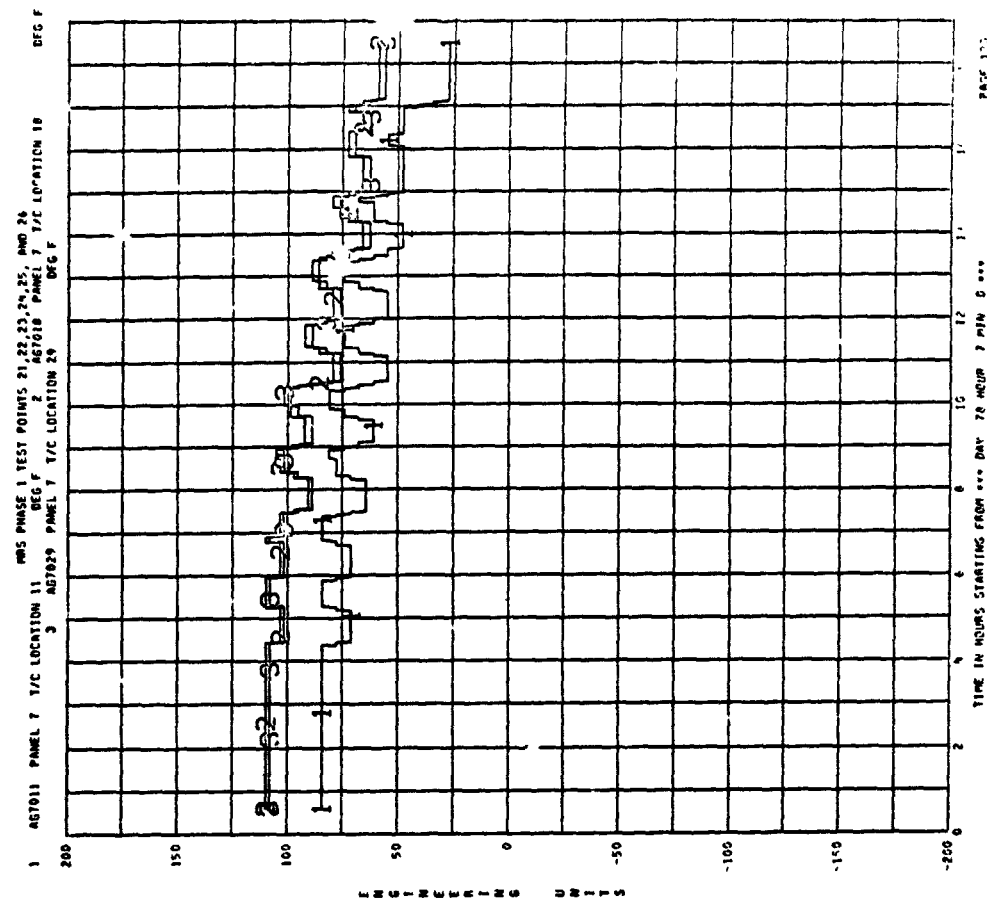
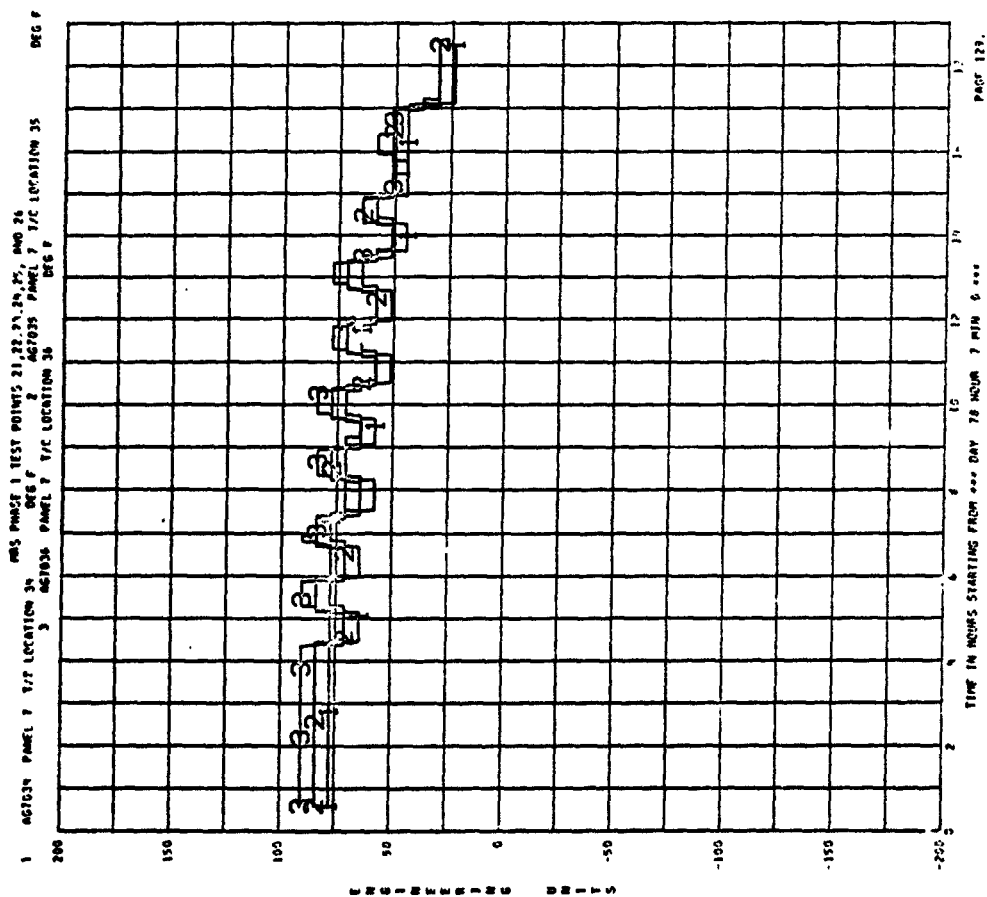




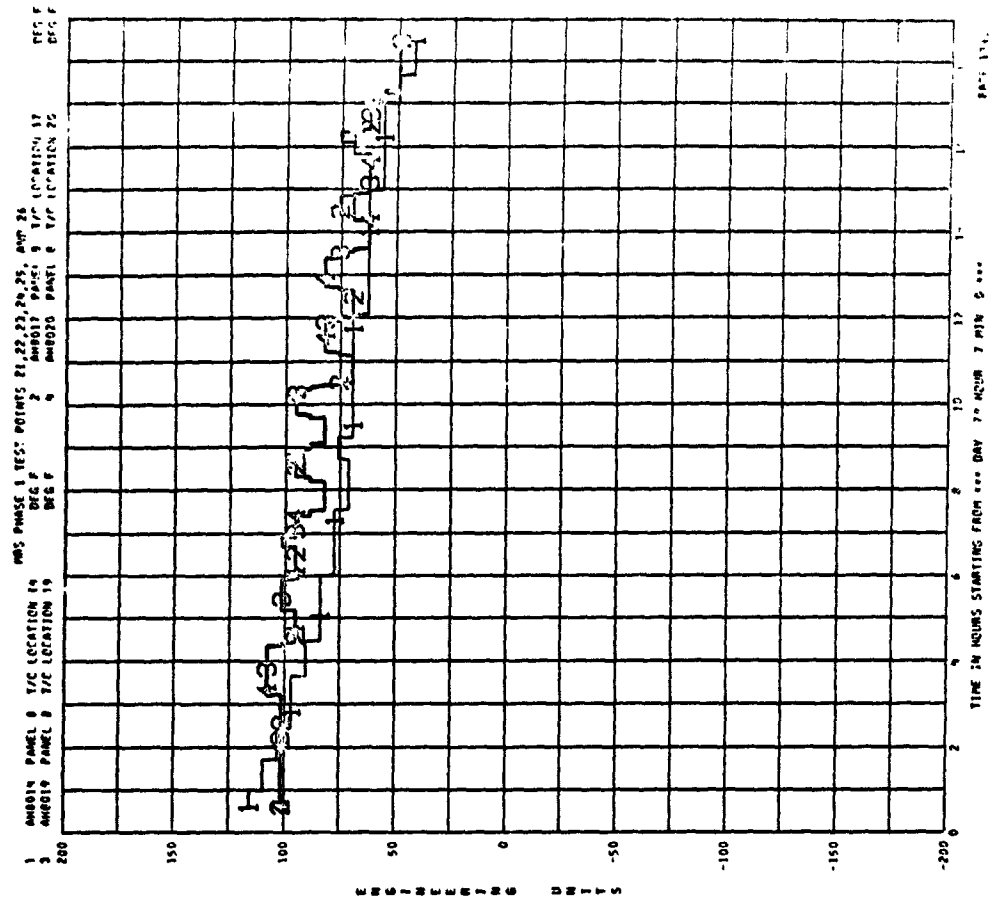
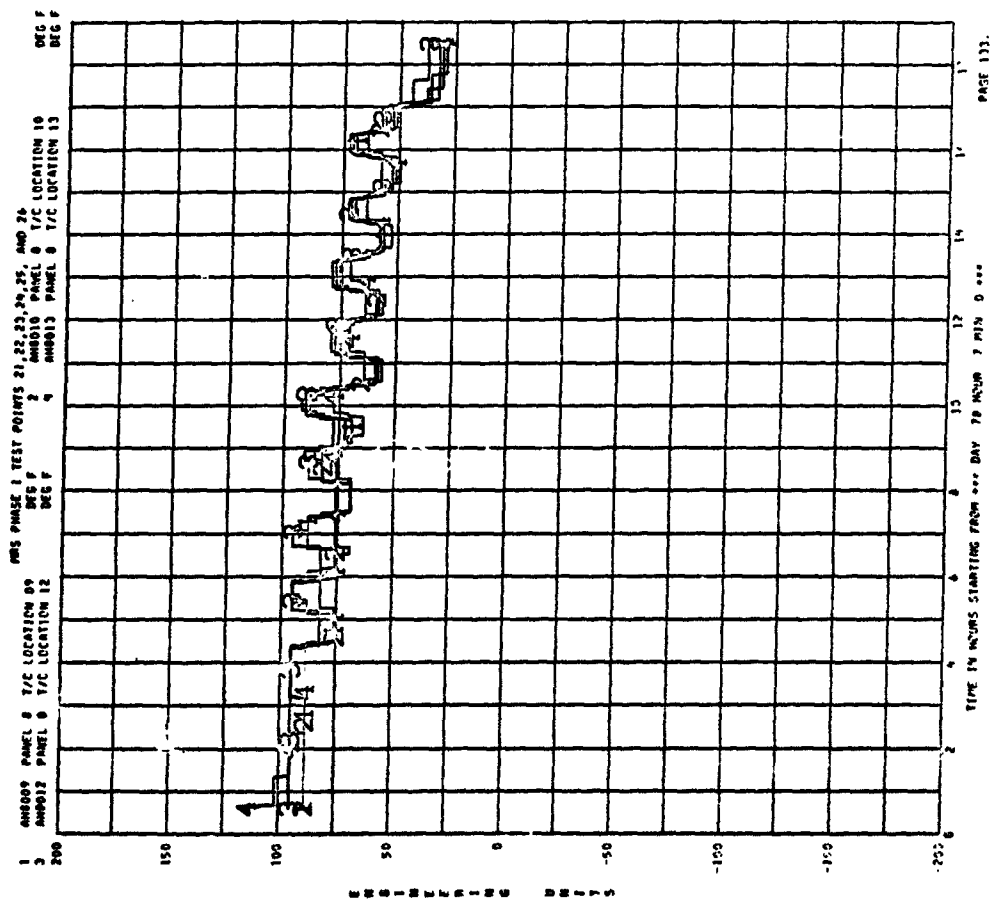


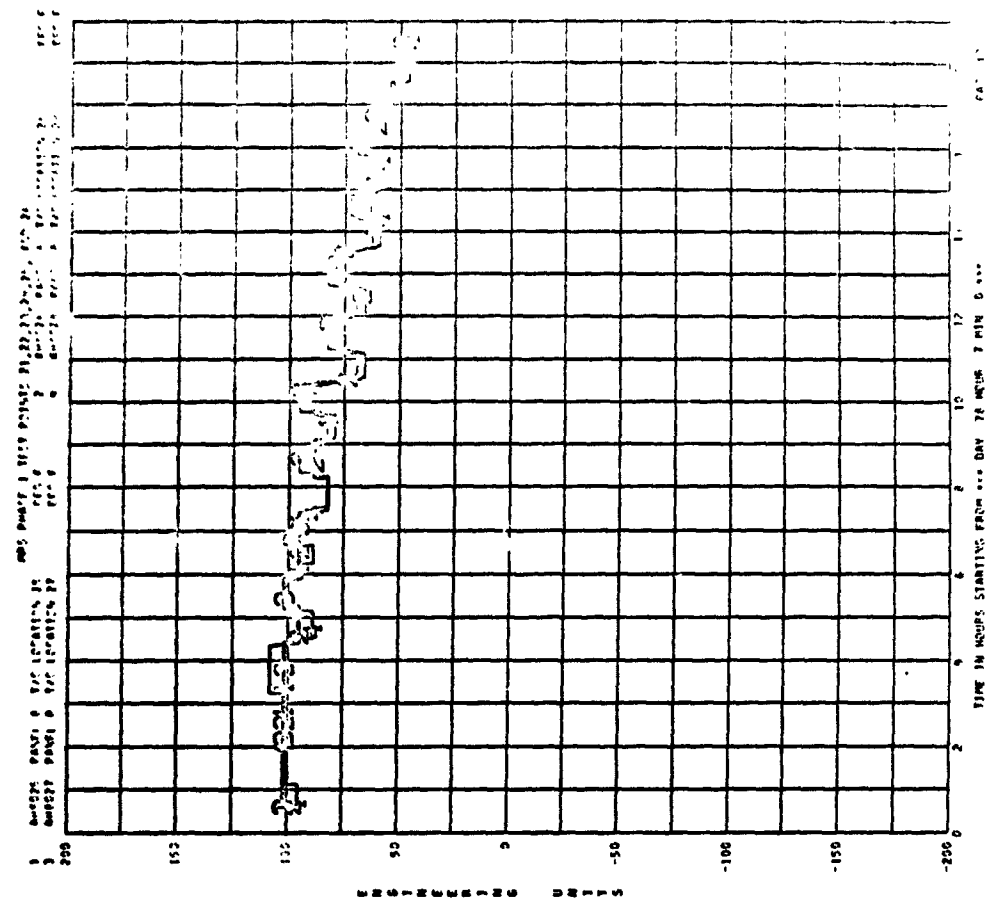
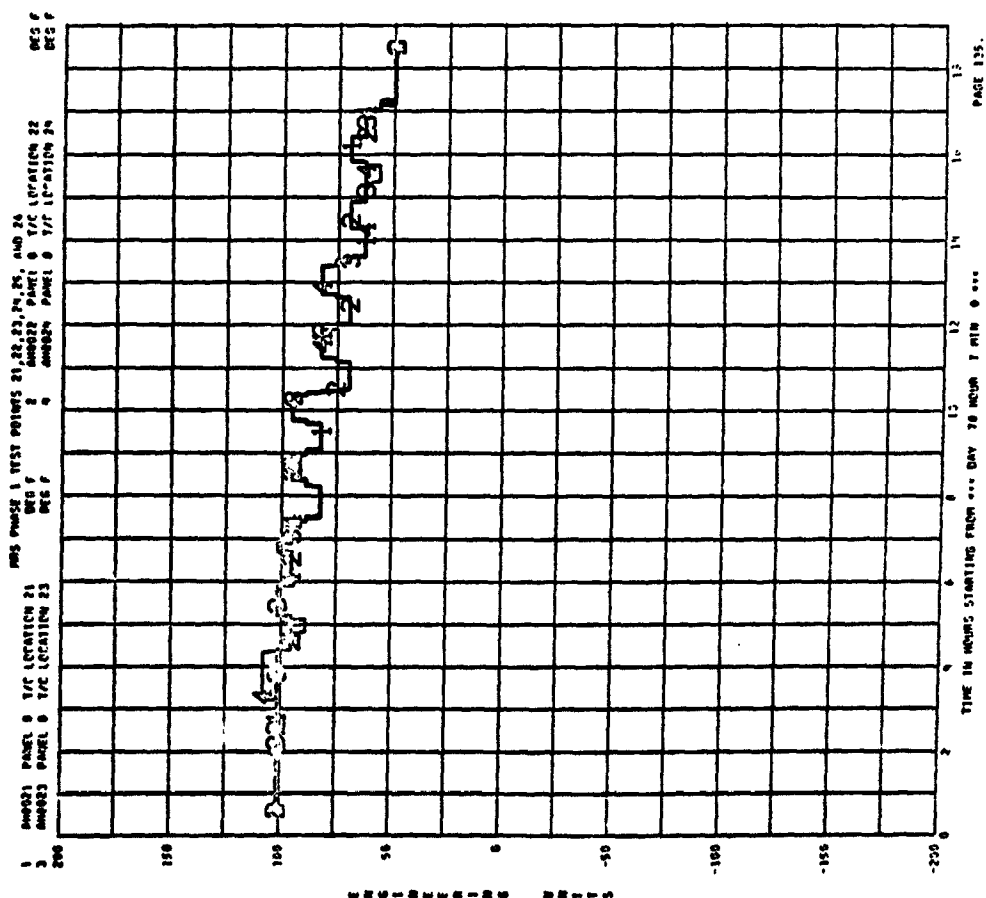




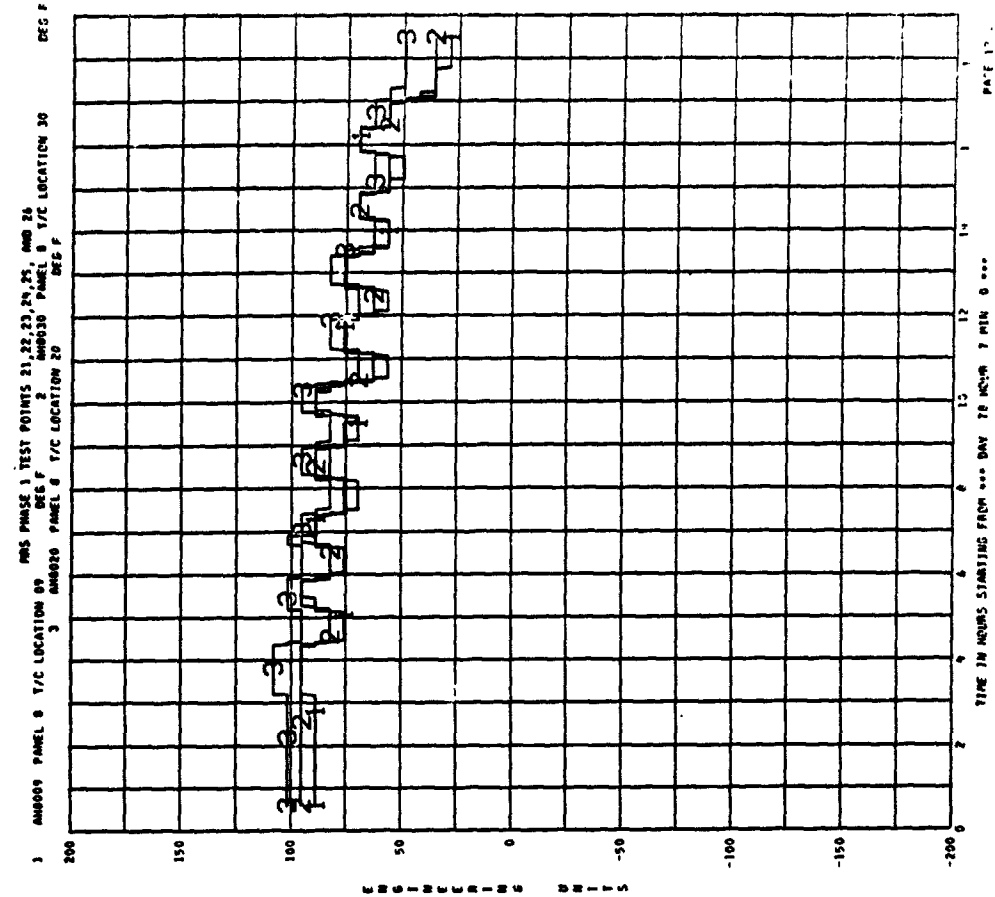
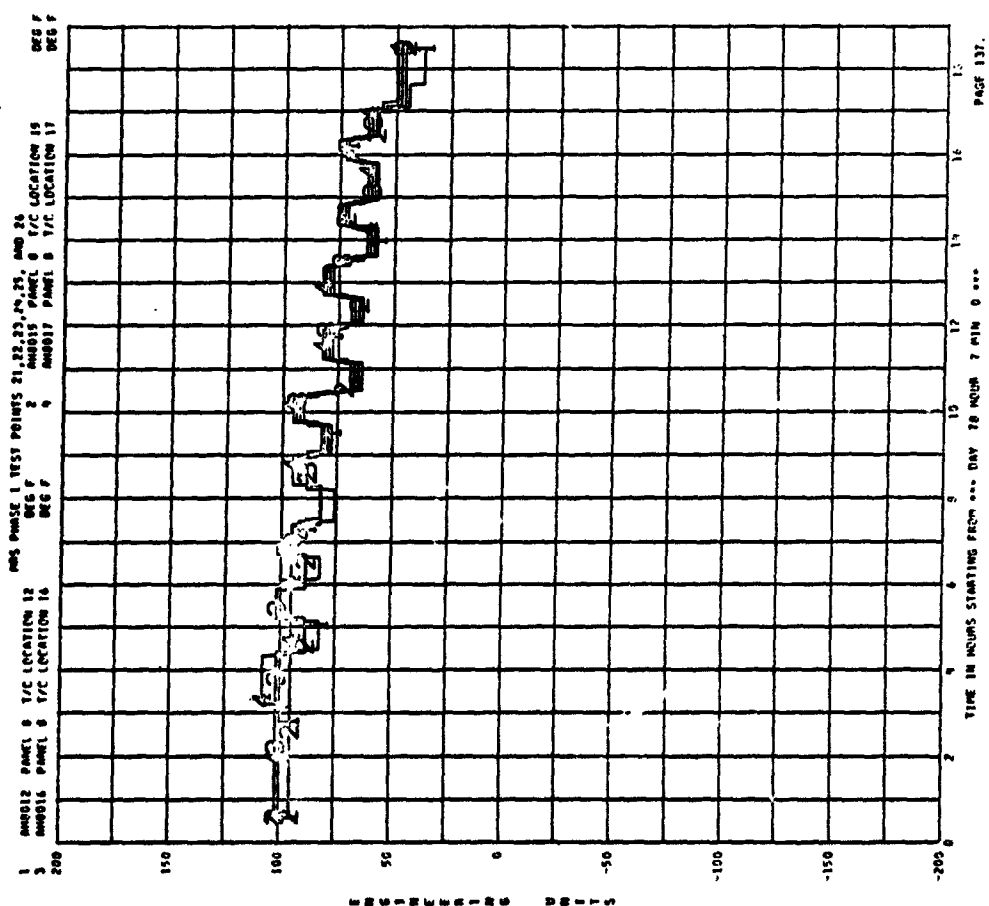


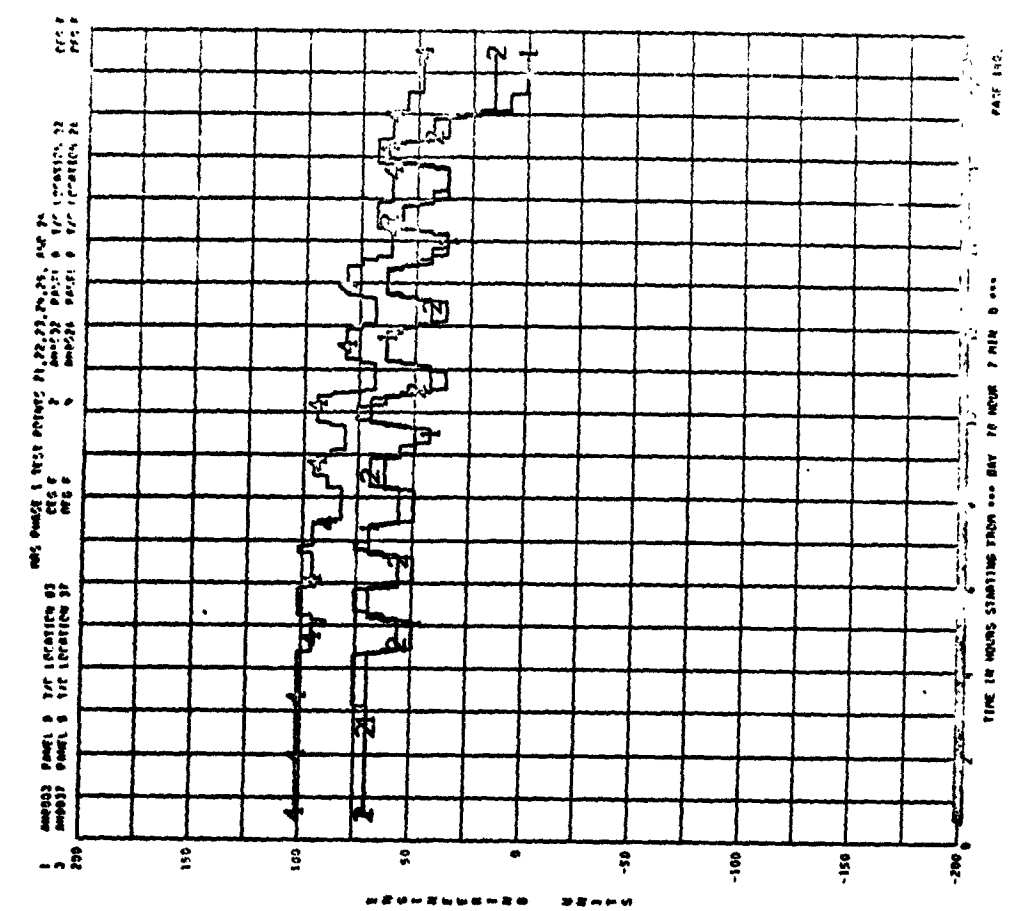
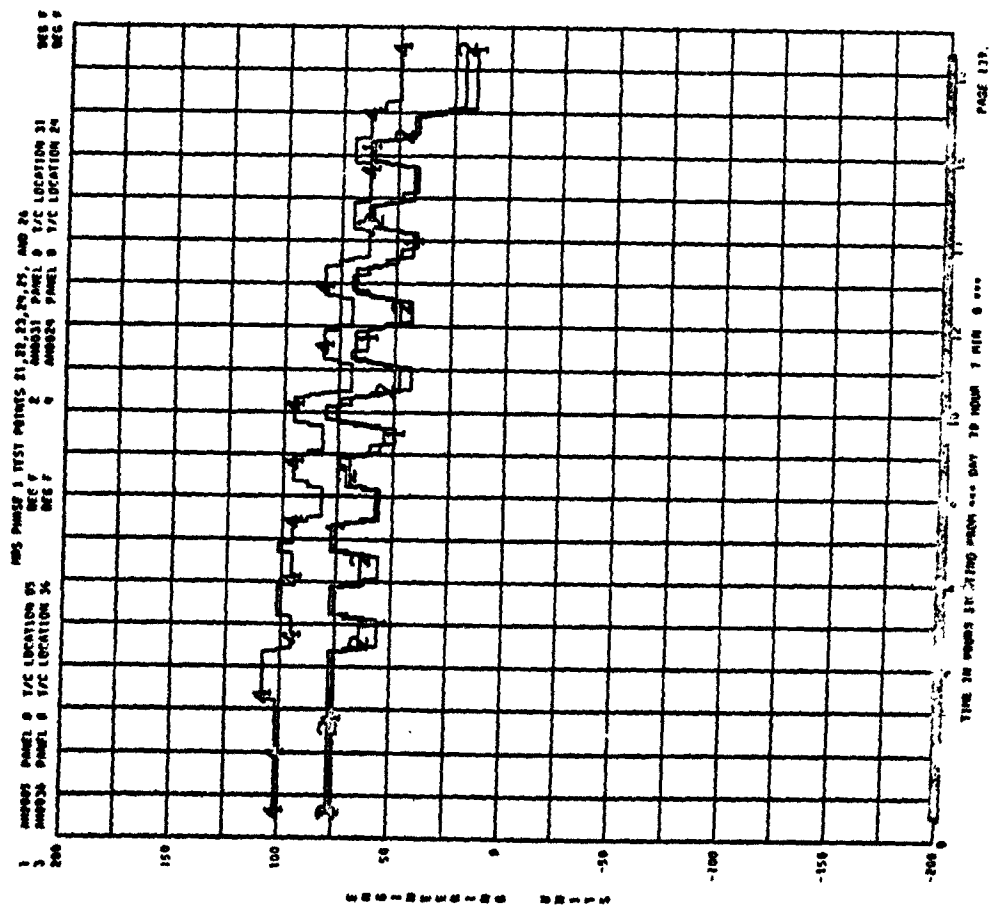


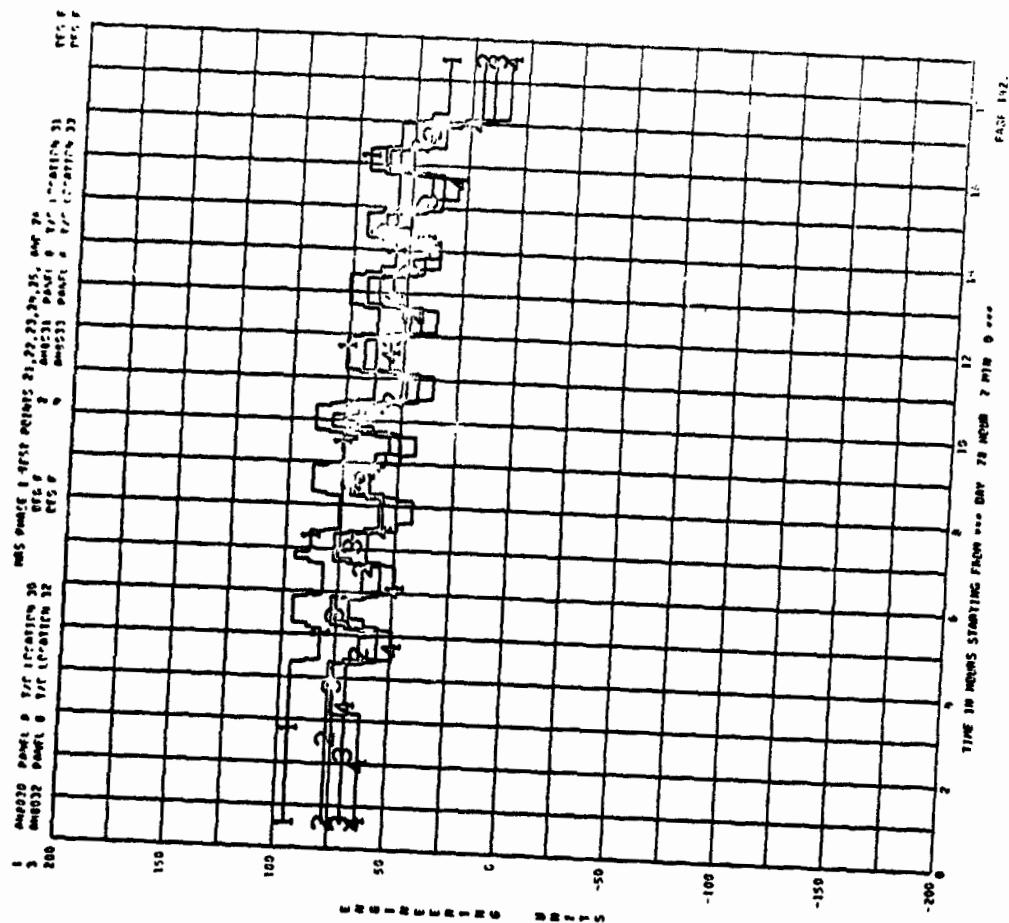
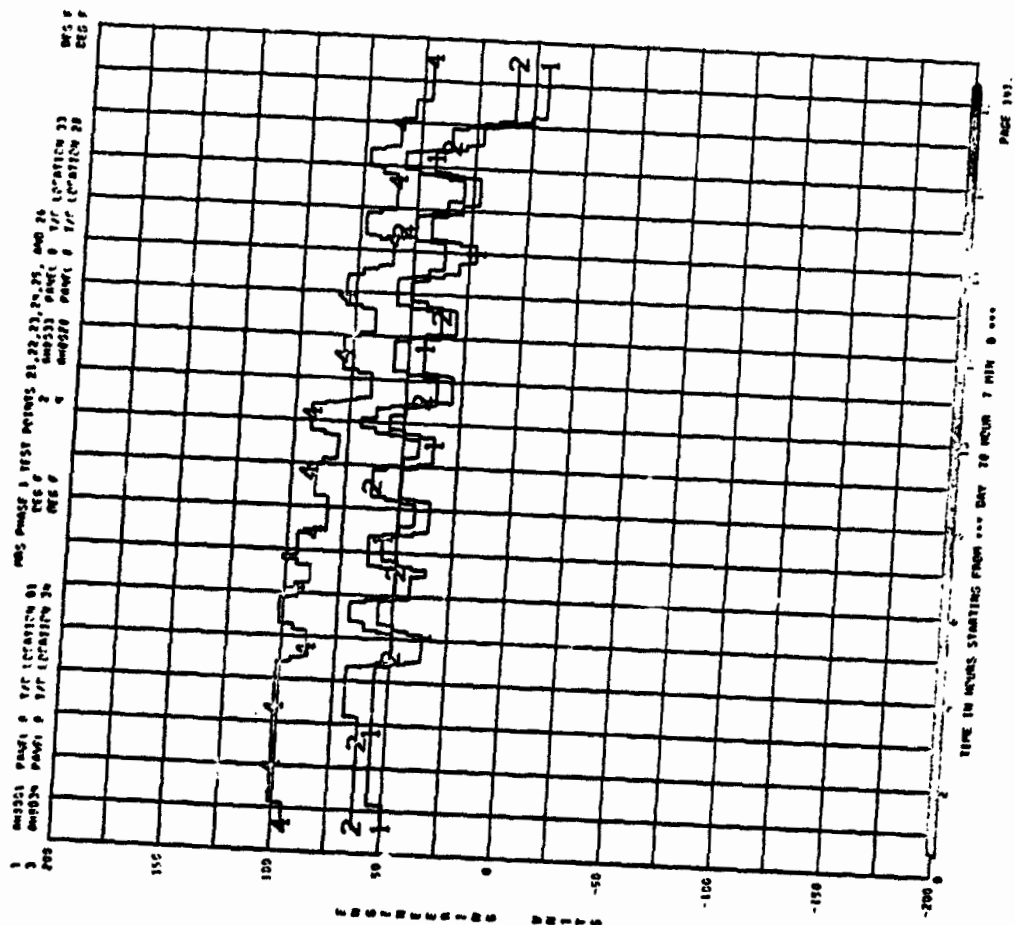


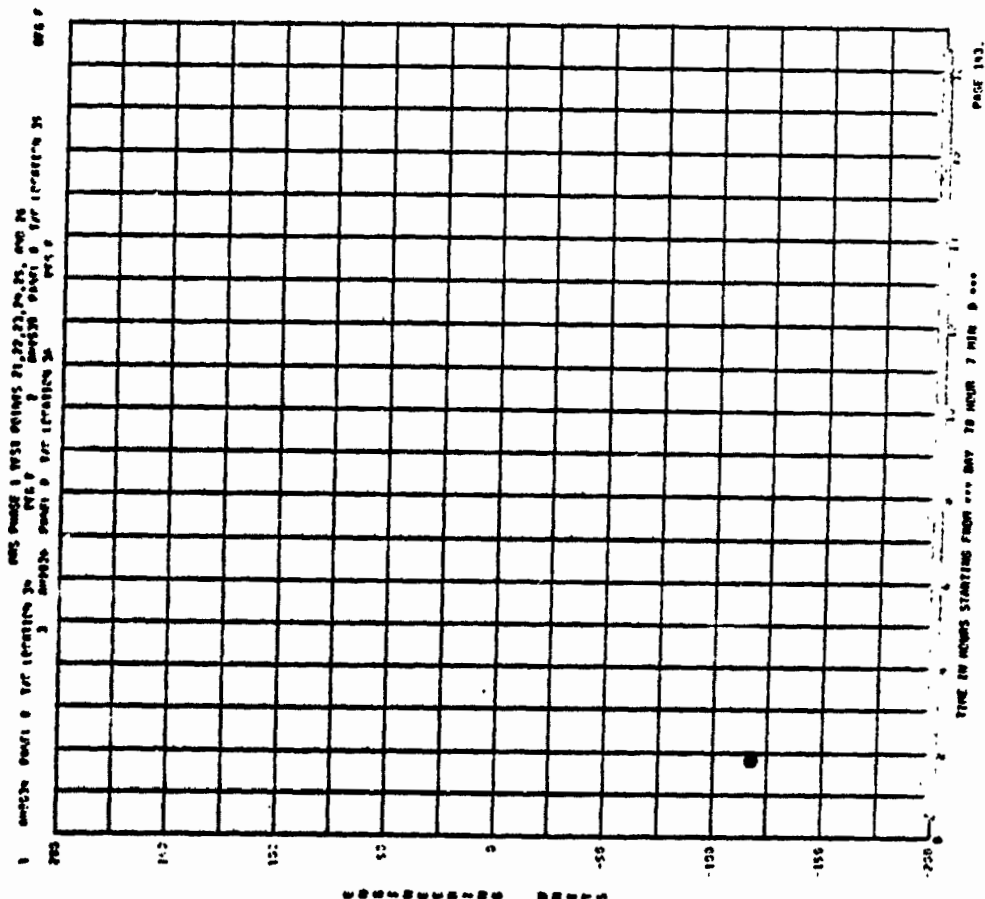
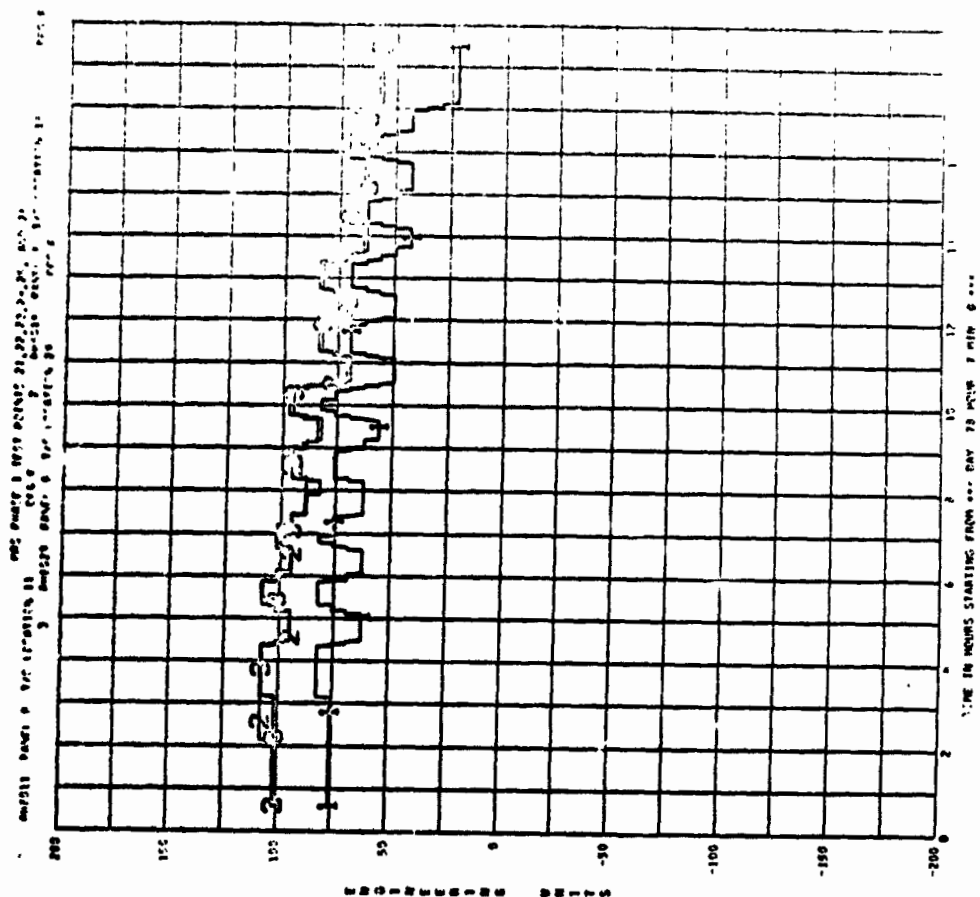










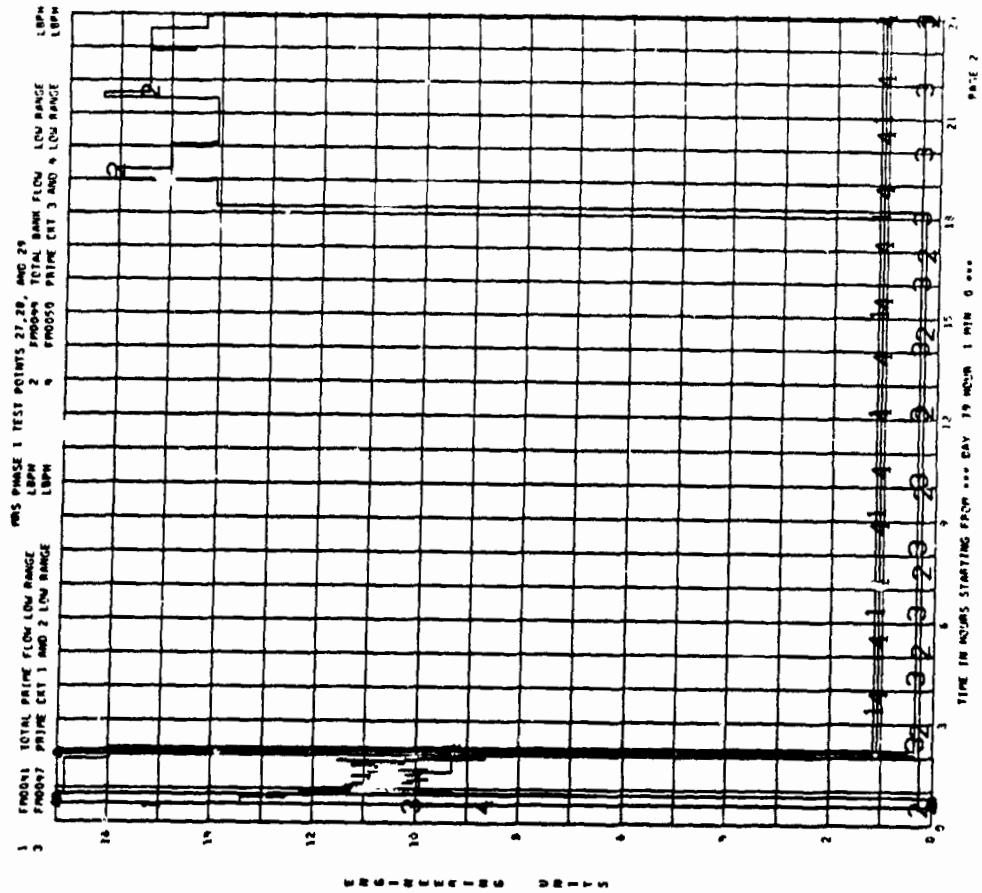
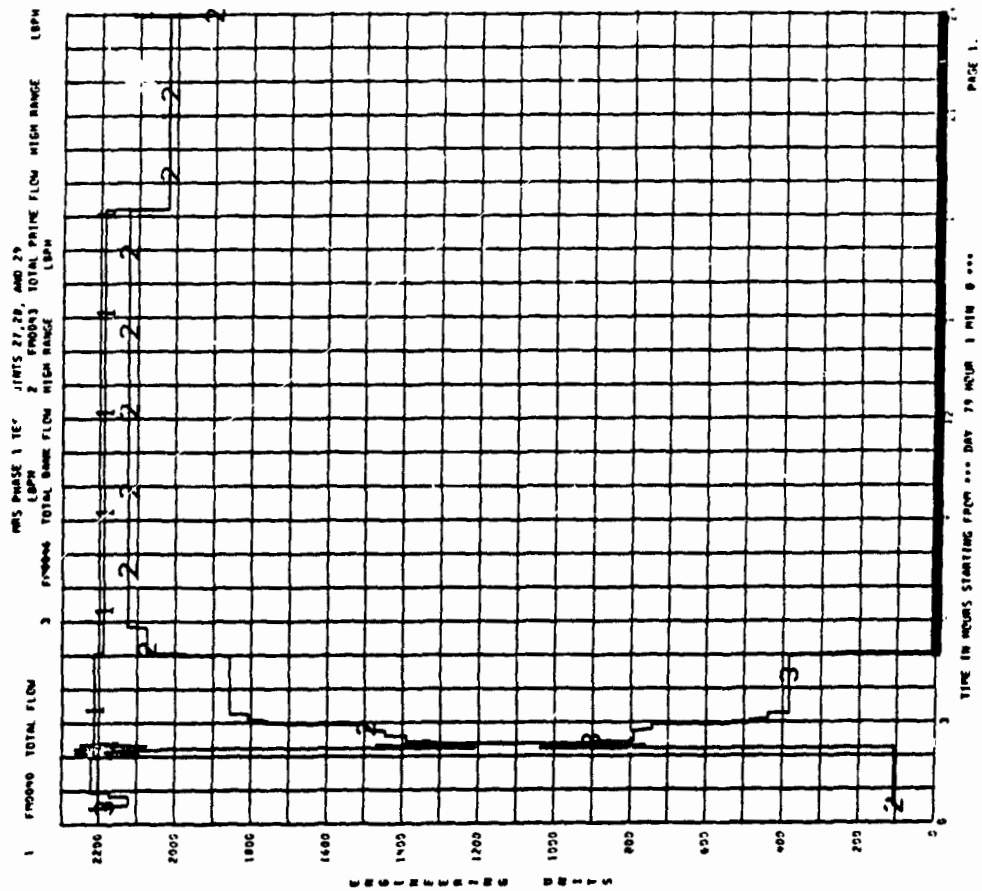


TEST GROUP J

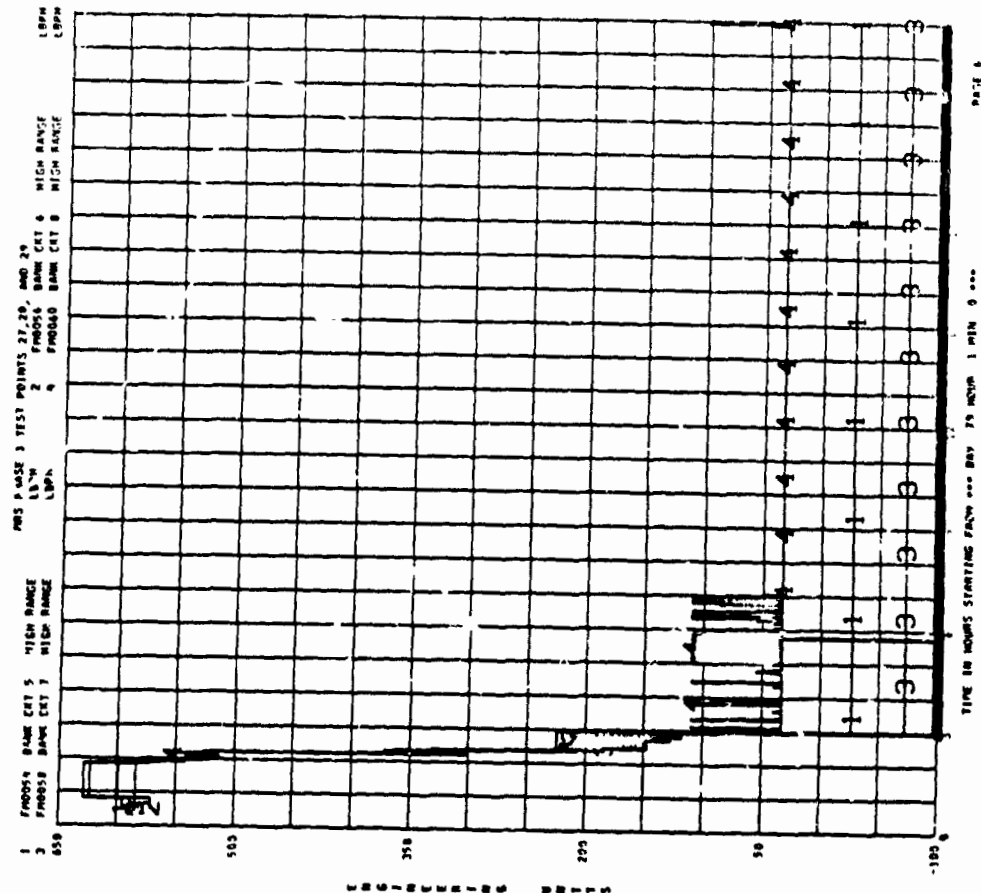
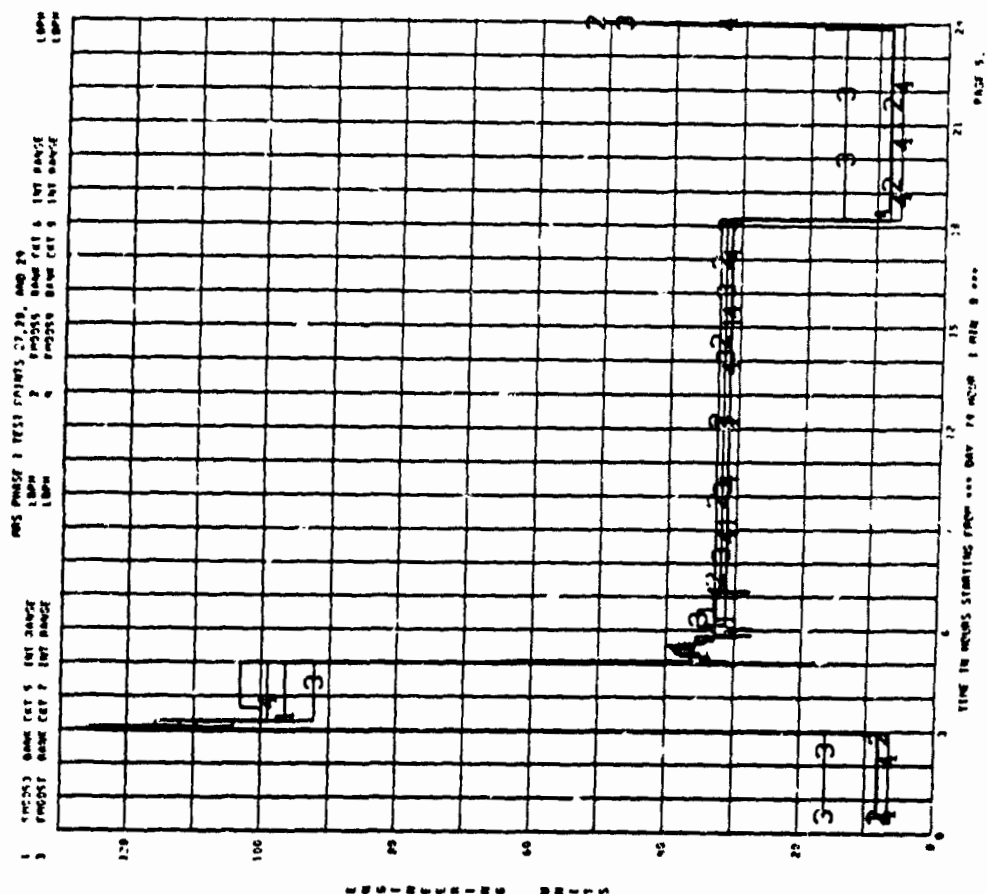
79:01:30 - 80:01:10

INCLUDES TEST POINTS

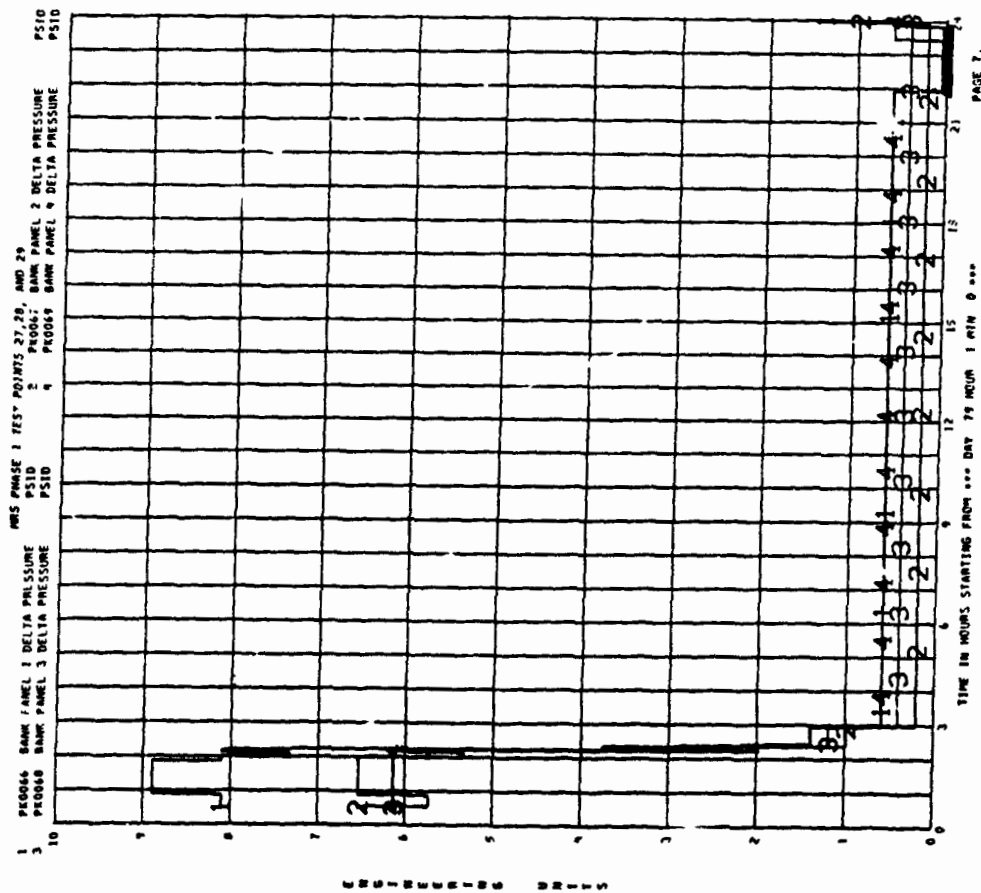
27  
28  
29



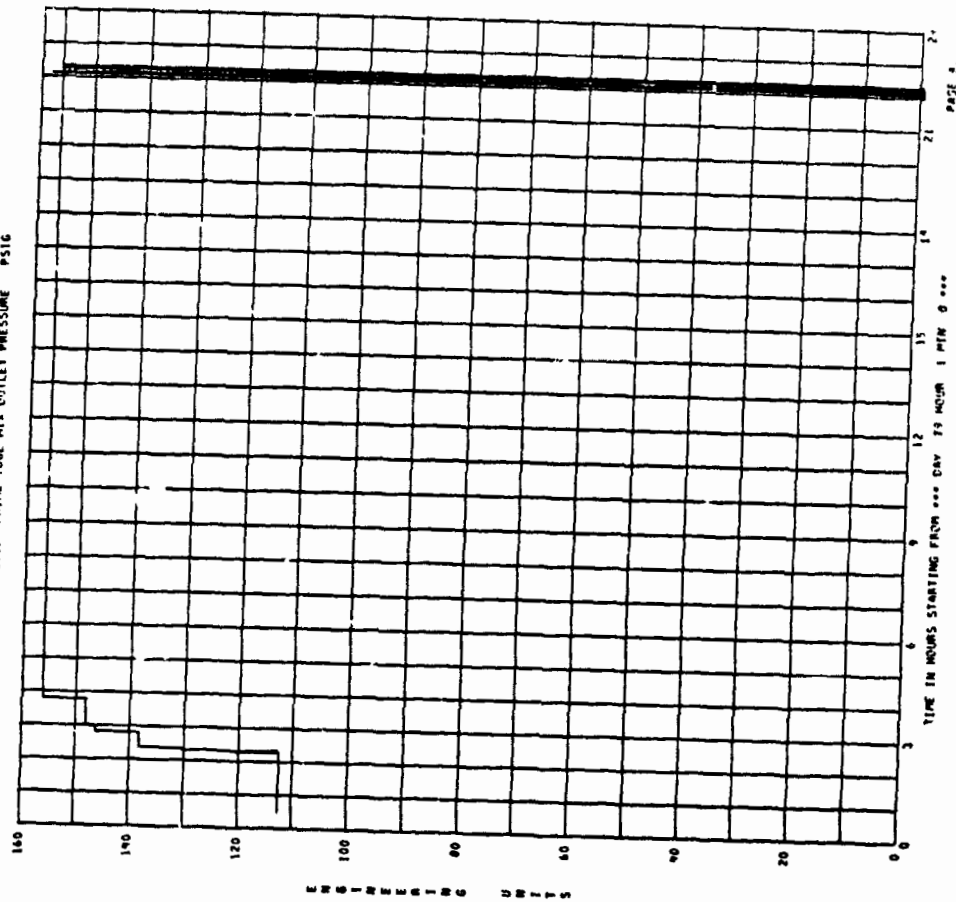


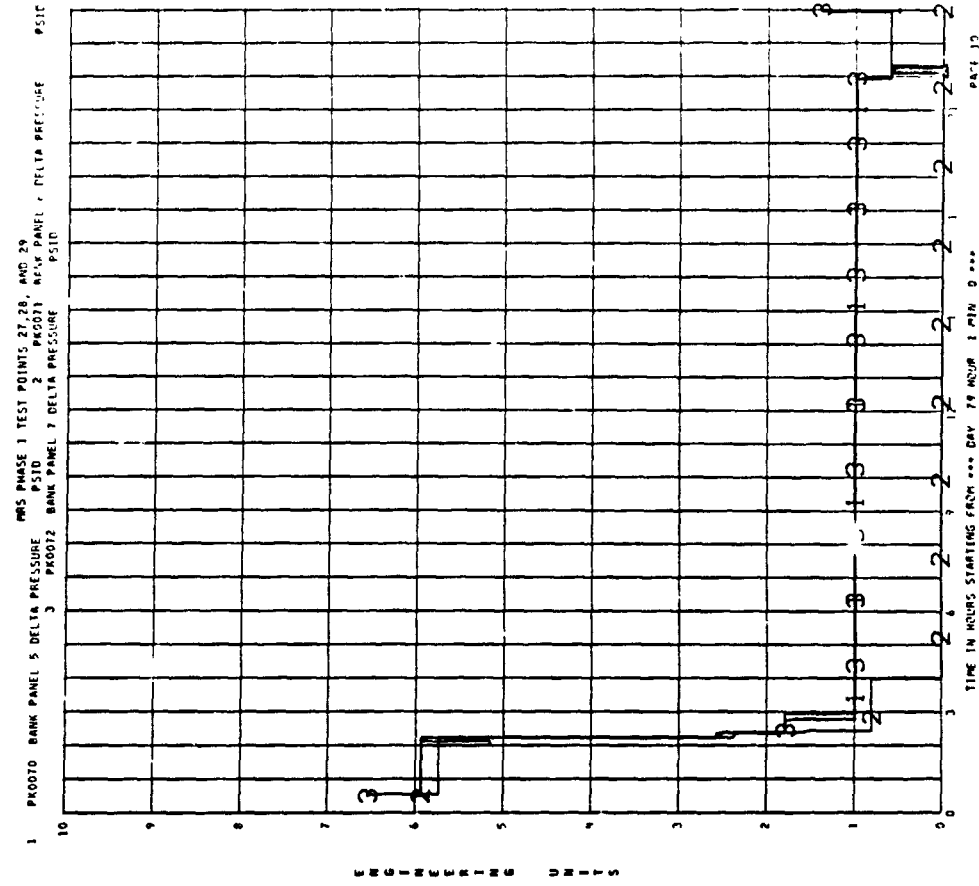
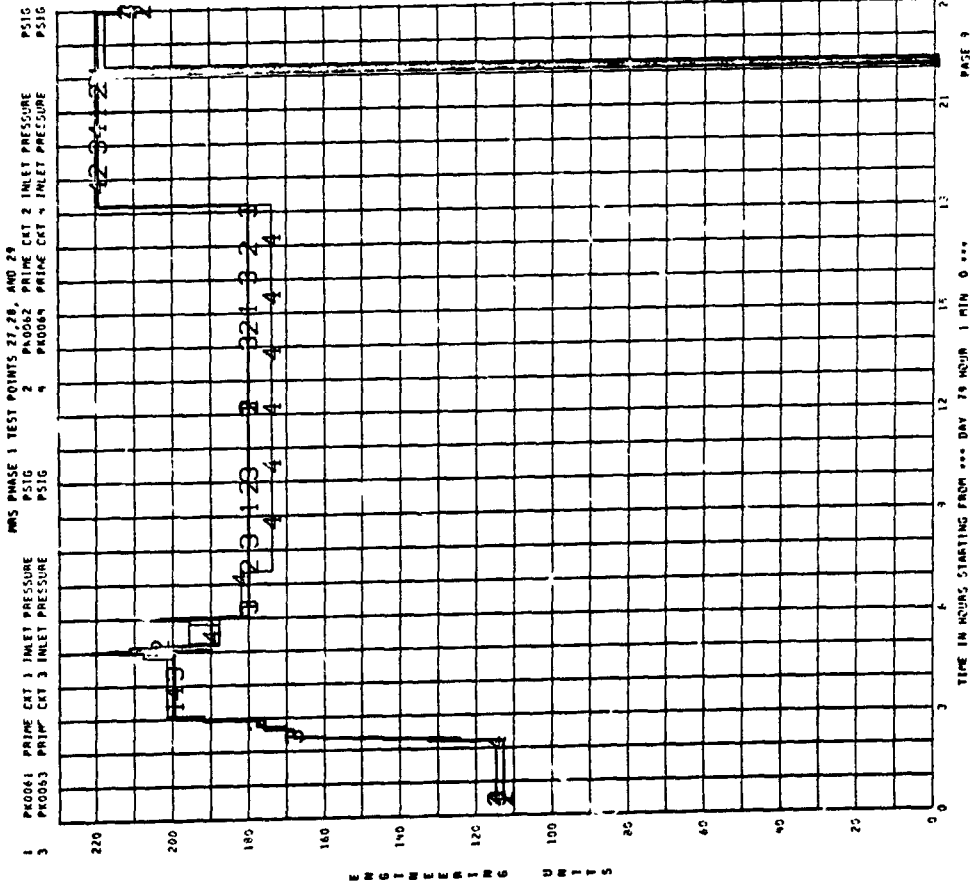




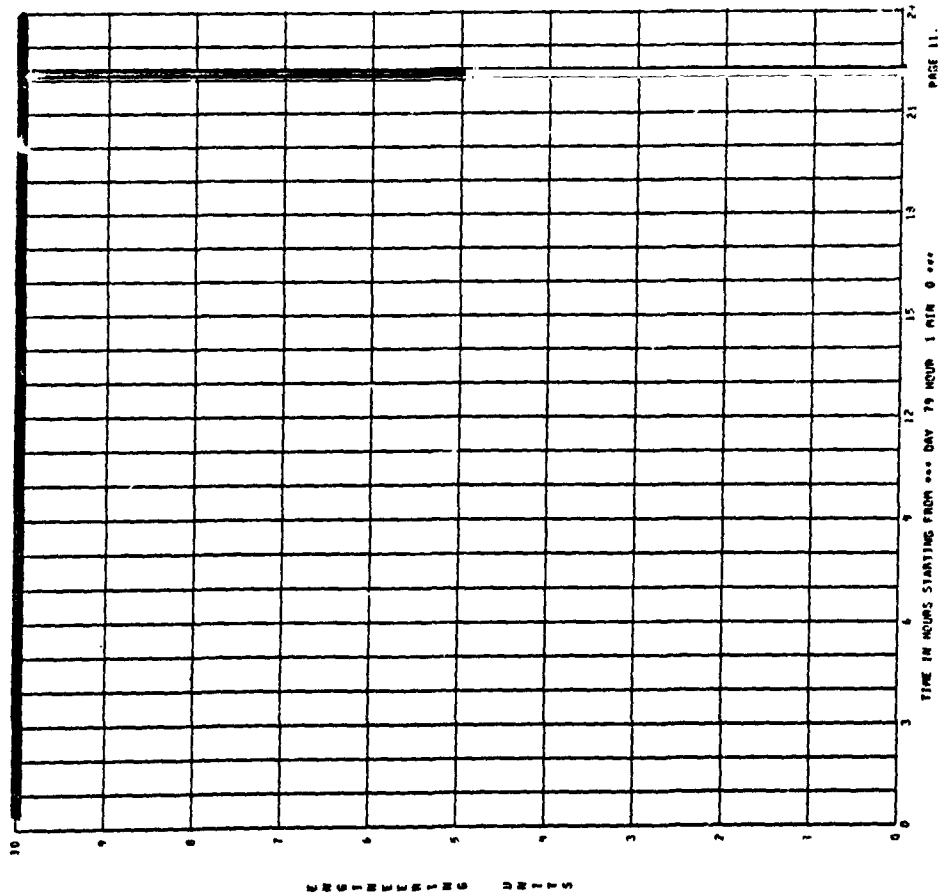


1 PEG065 PRIME TUBE MIX OUTLET PRESSURE PSIG  
 2 PEG066 PRIME TUBE MIX OUTLET PRESSURE PSIG  
 3 PEG067 PRIME TUBE MIX OUTLET PRESSURE PSIG  
 4 PEG068 PRIME TUBE MIX OUTLET PRESSURE PSIG  
 5 PEG069 PRIME TUBE MIX OUTLET PRESSURE PSIG  
 6 PEG070 PRIME TUBE MIX OUTLET PRESSURE PSIG  
 7 PEG071 PRIME TUBE MIX OUTLET PRESSURE PSIG  
 8 PEG072 PRIME TUBE MIX OUTLET PRESSURE PSIG  
 9 PEG073 PRIME TUBE MIX OUTLET PRESSURE PSIG  
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 11 PEG075 PRIME TUBE MIX OUTLET PRESSURE PSIG

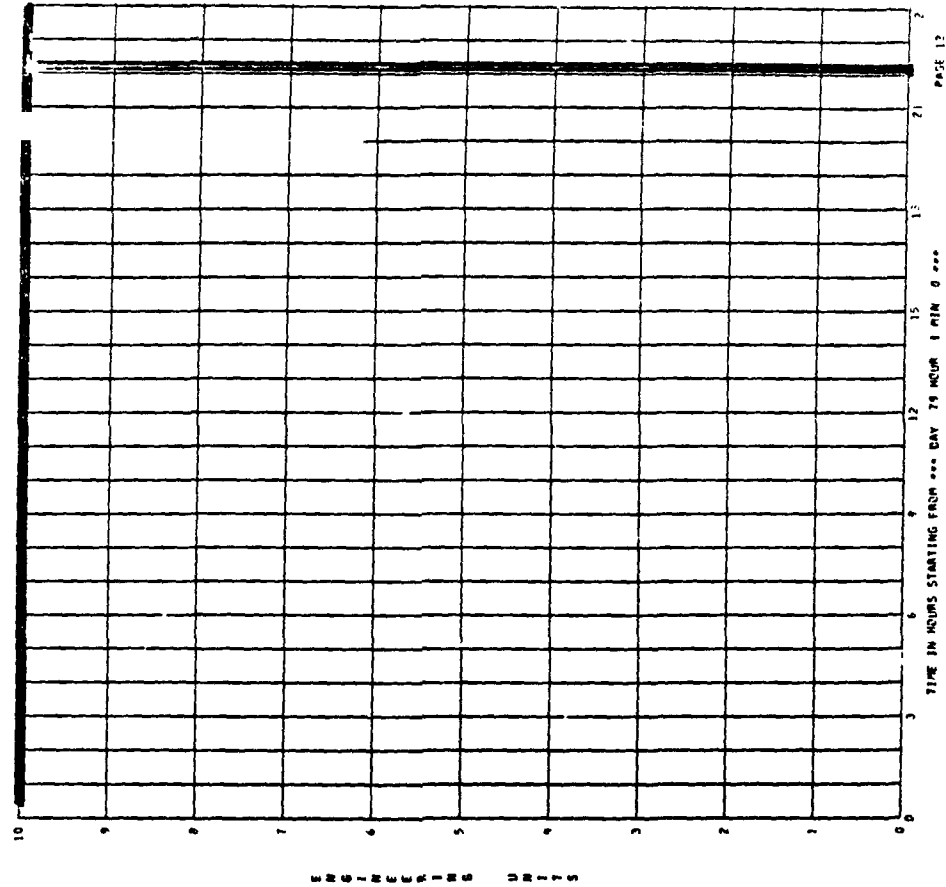




PMS PHASE 1 TEST POINTS 27, 28, AND 29  
 DEG F  
 1 A10001 PRIME SYSTEM INLET

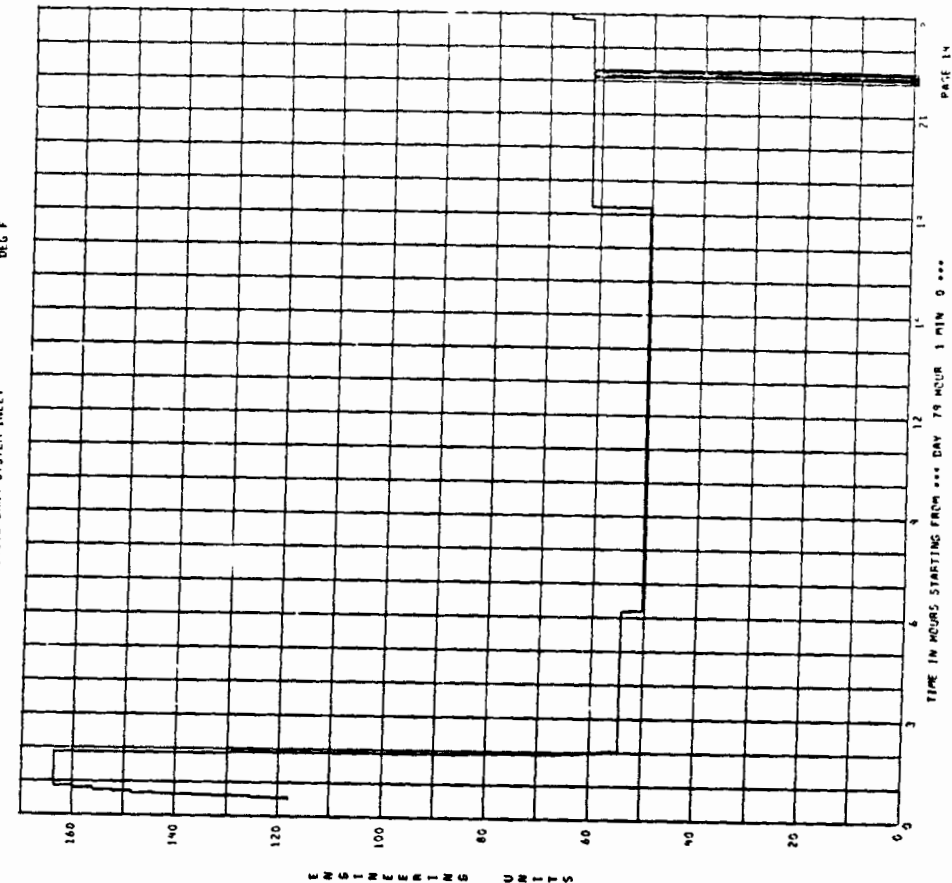
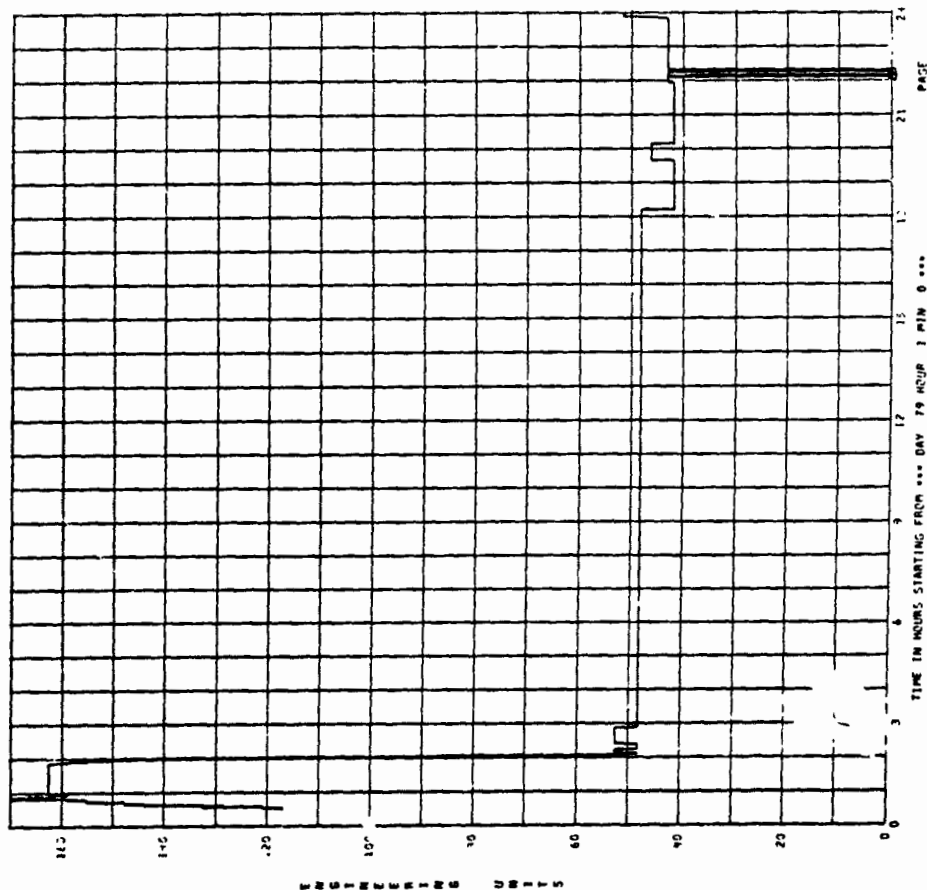


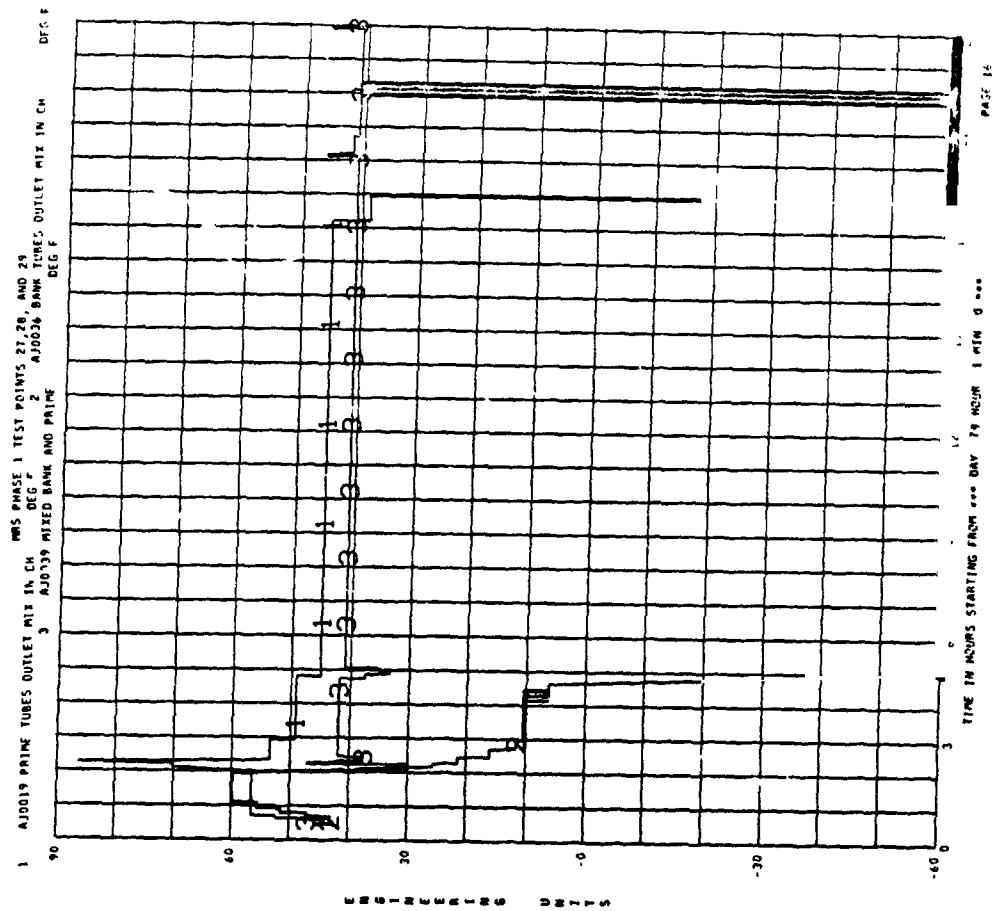
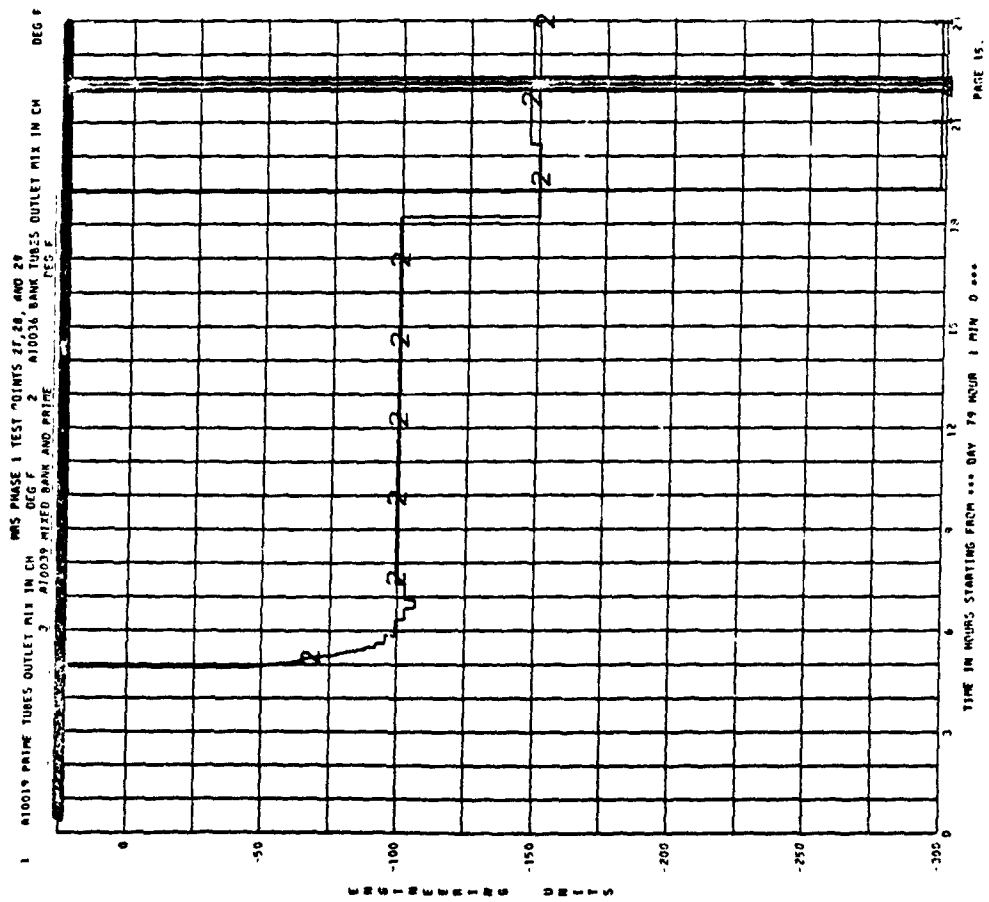
PMS PHASE 1 TEST POINTS 27, 28, AND 29  
 DEG F  
 1 A10002 BANK SYSTEM INLET

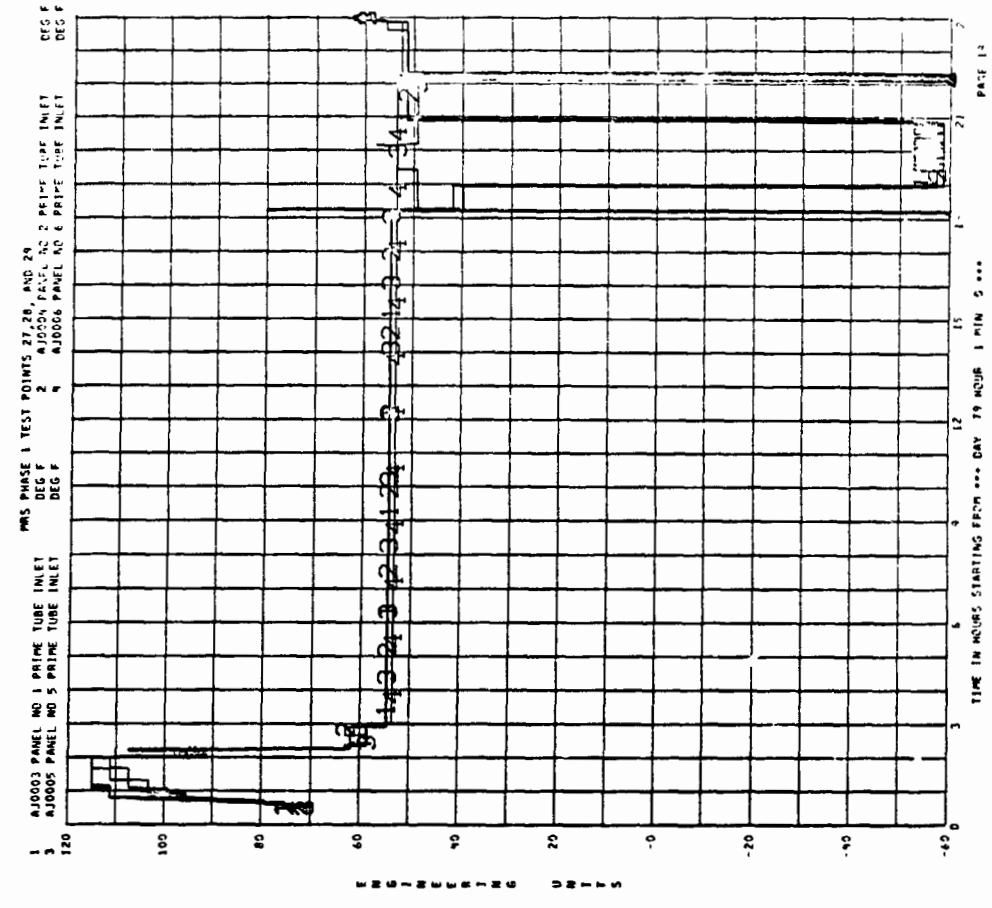
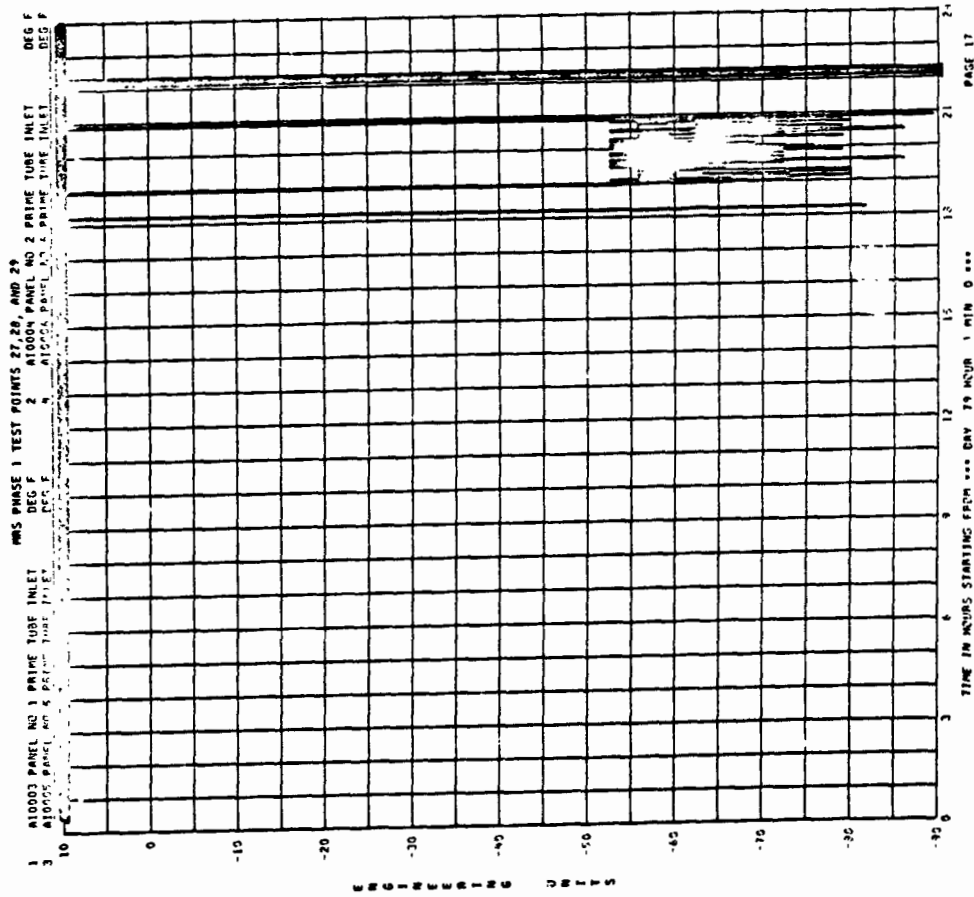


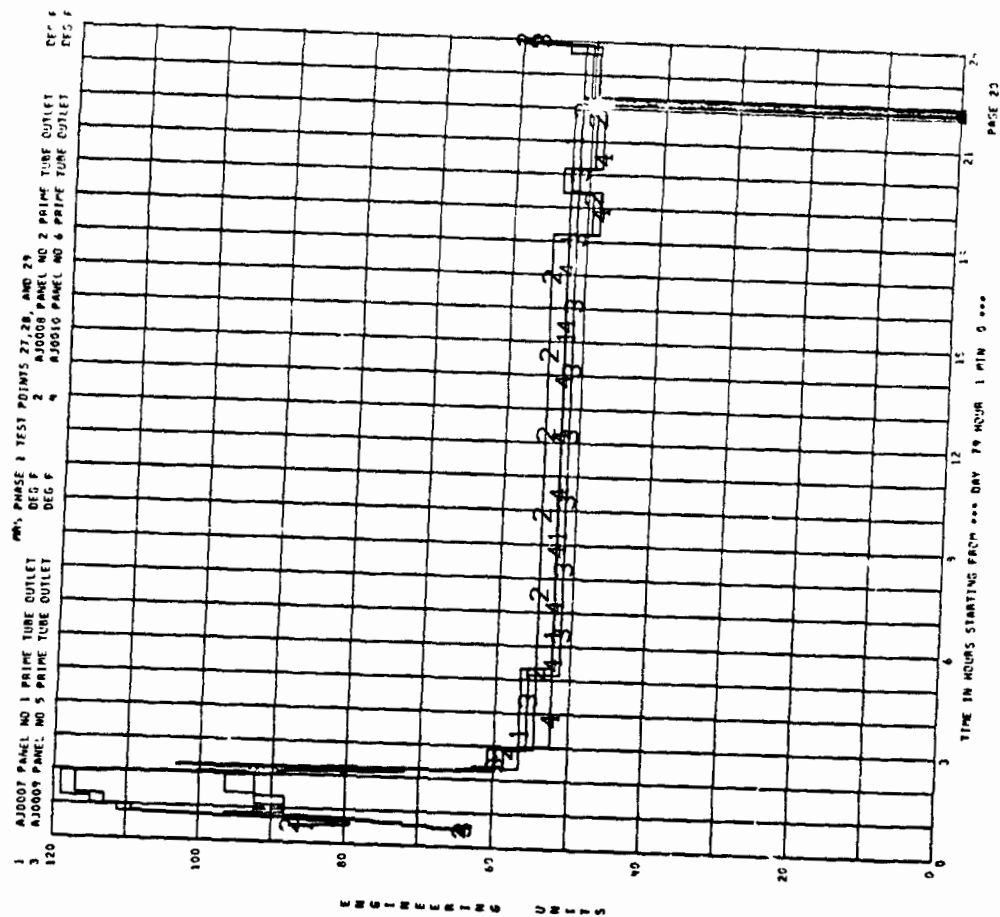
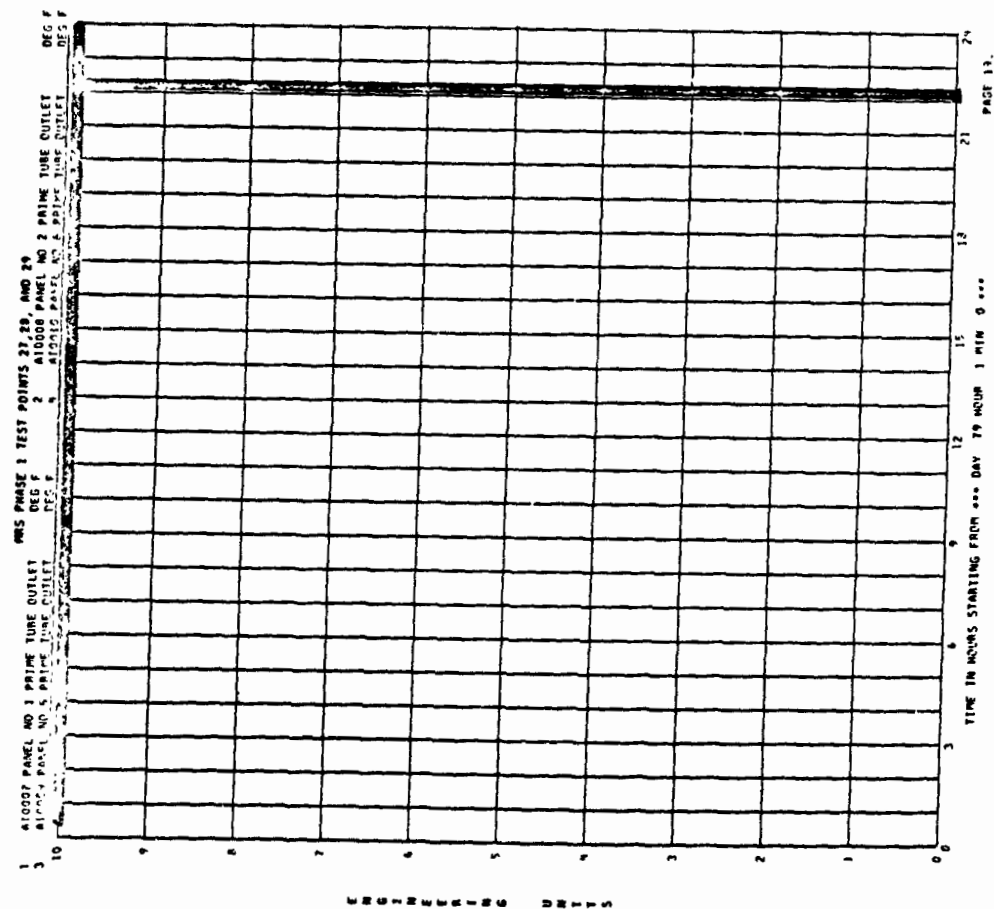
1 A10001 BANK SYSTEM INLET

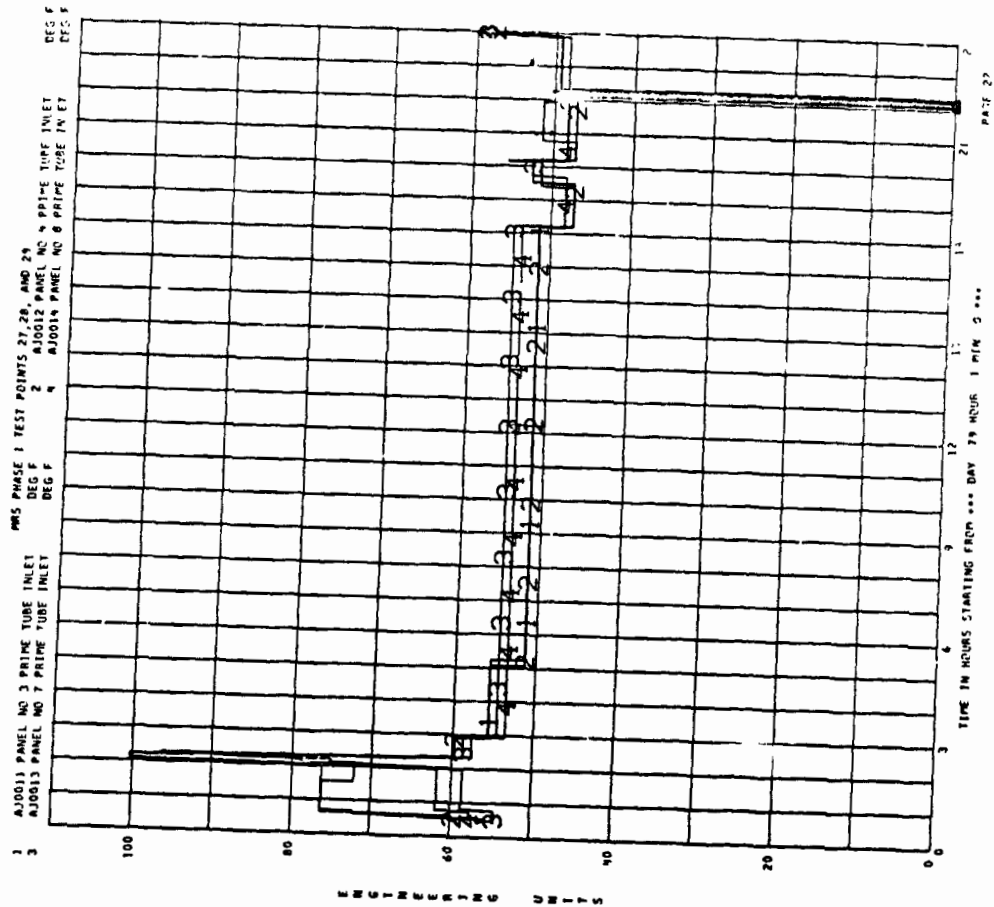
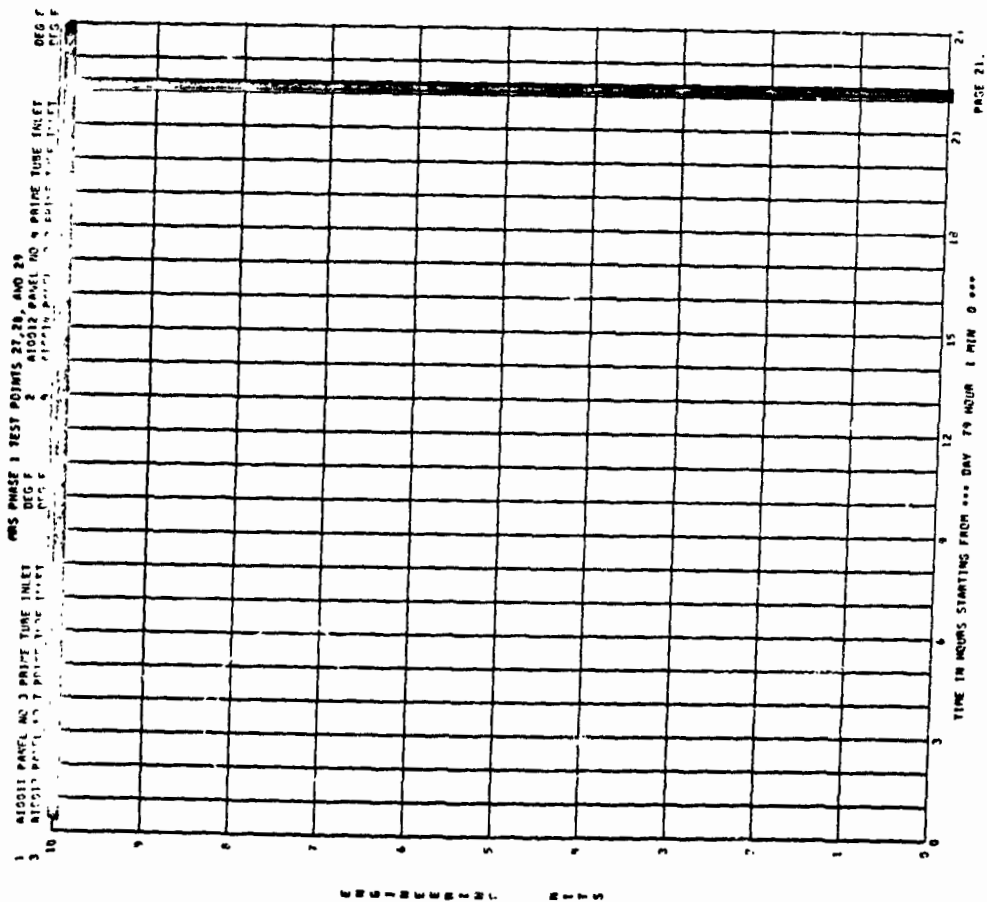
1 A10002 BANK SYSTEM INLET



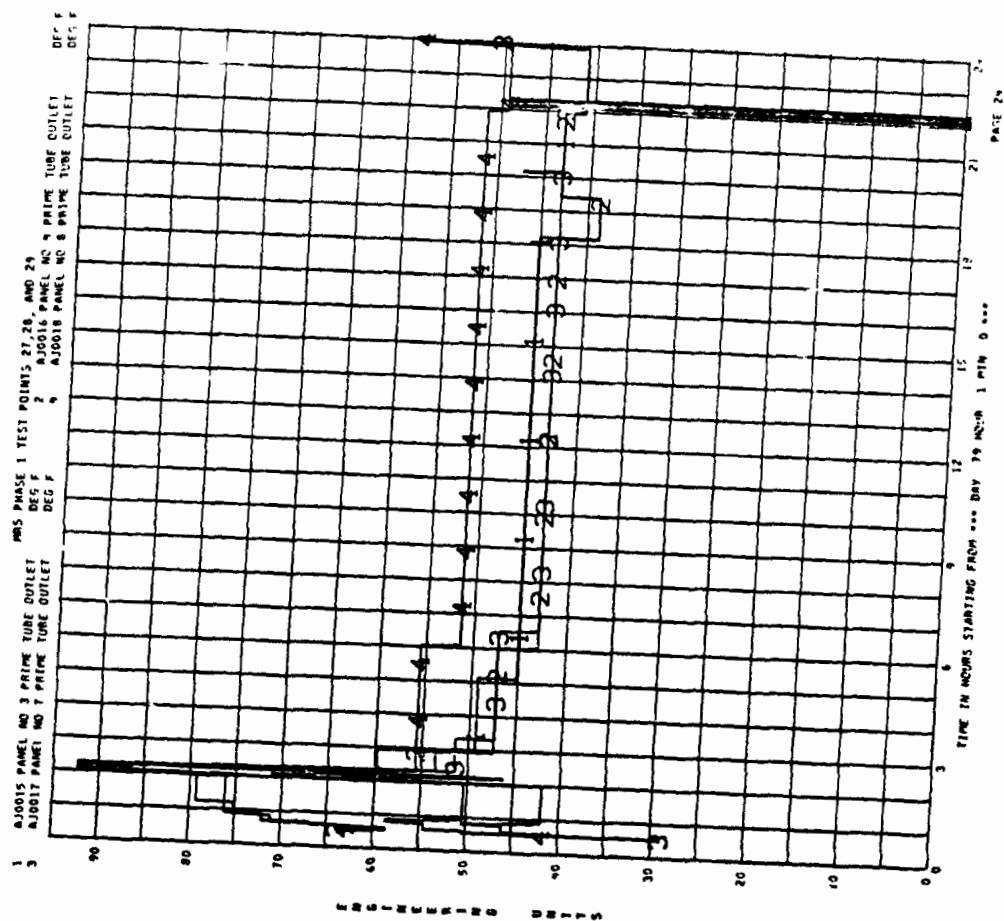
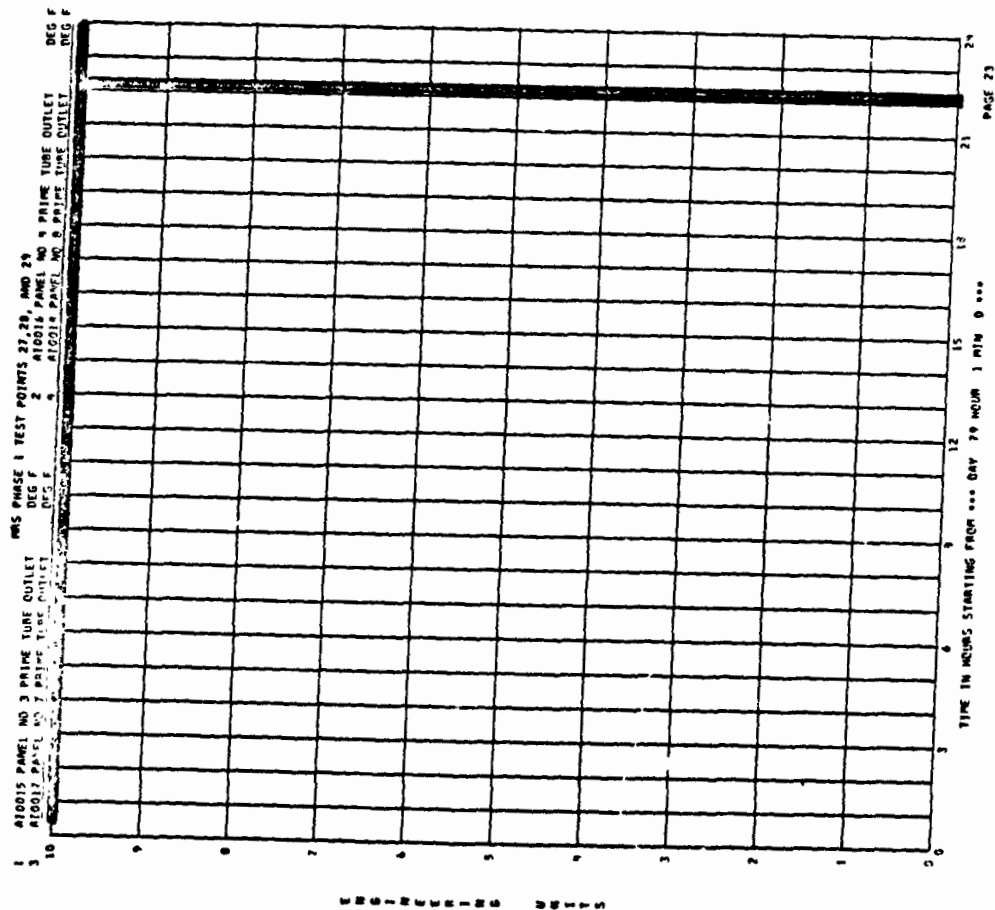


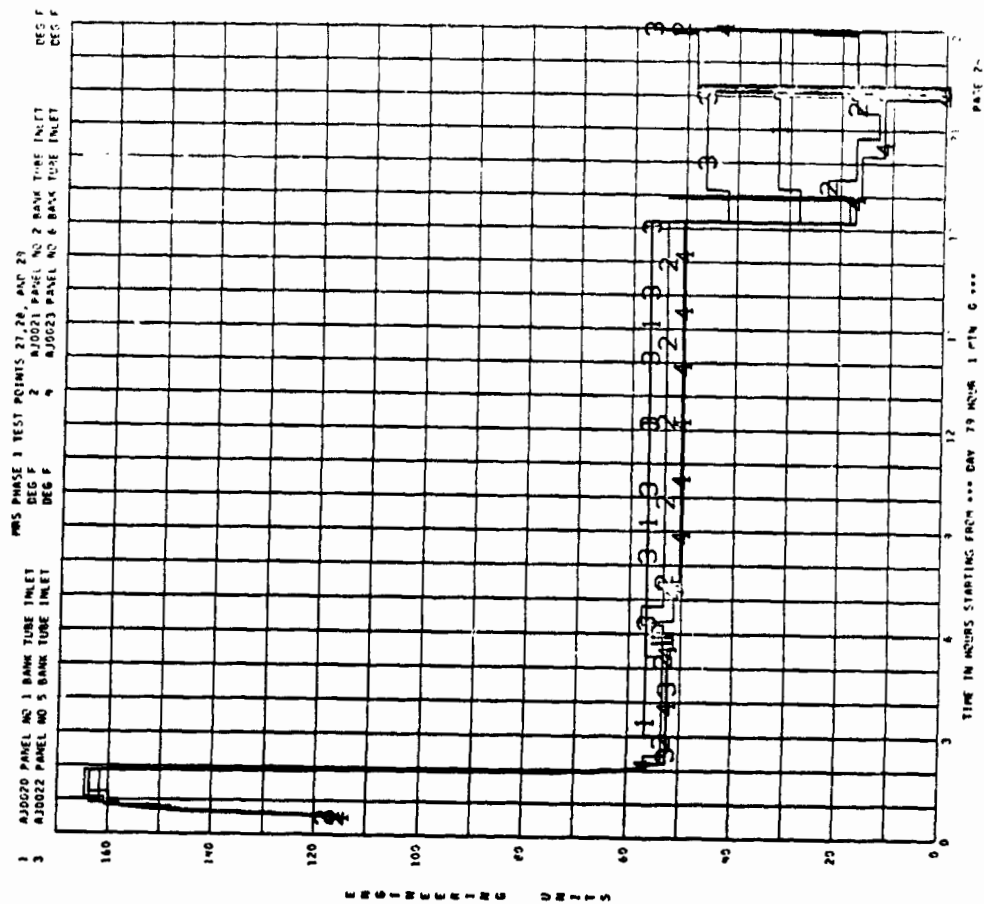
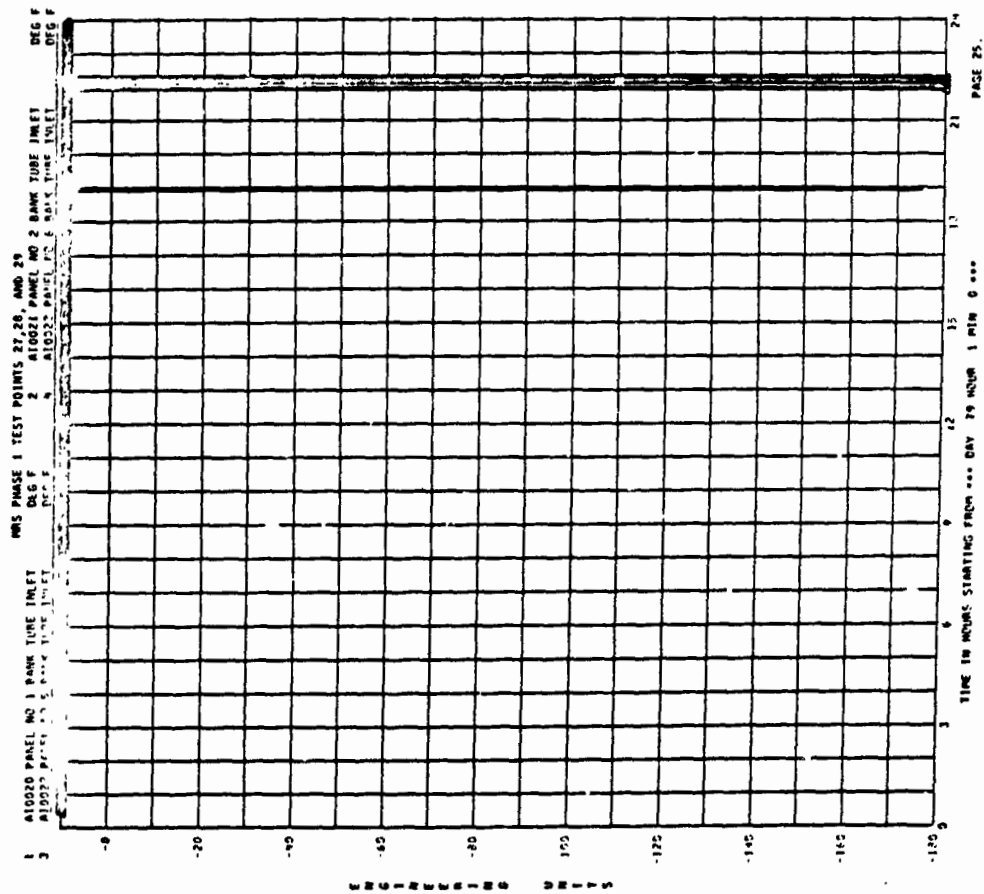


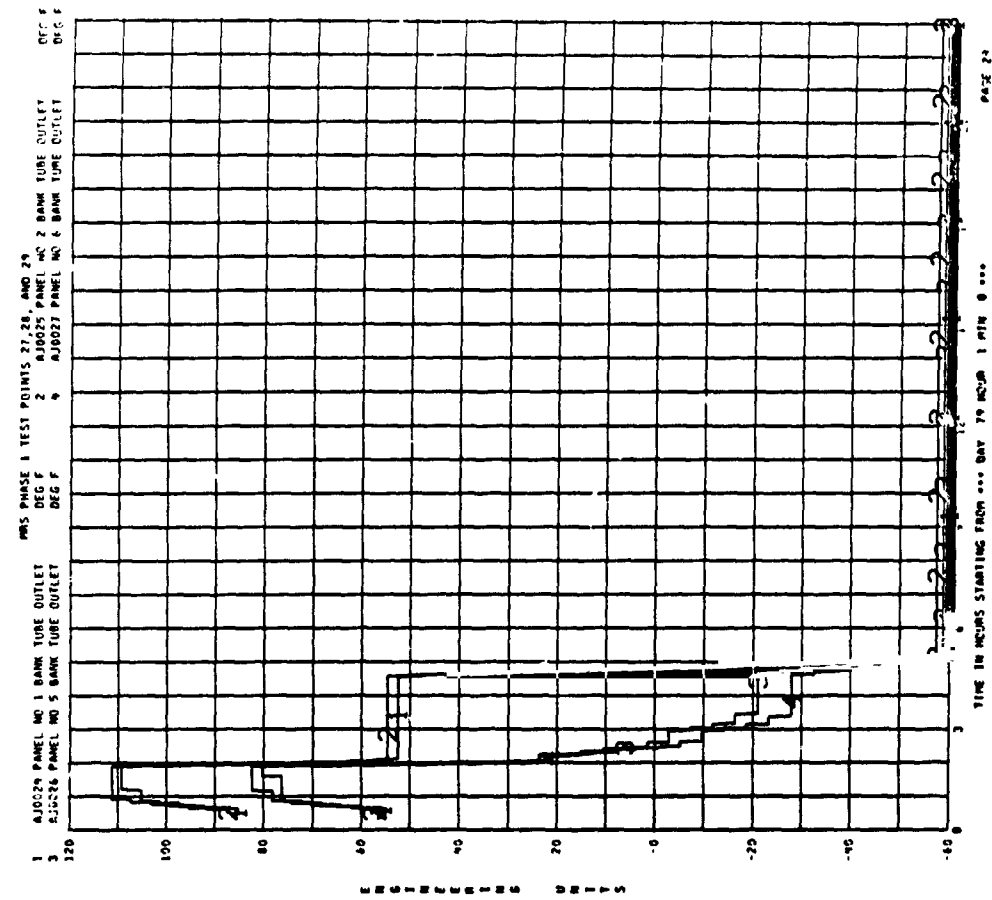
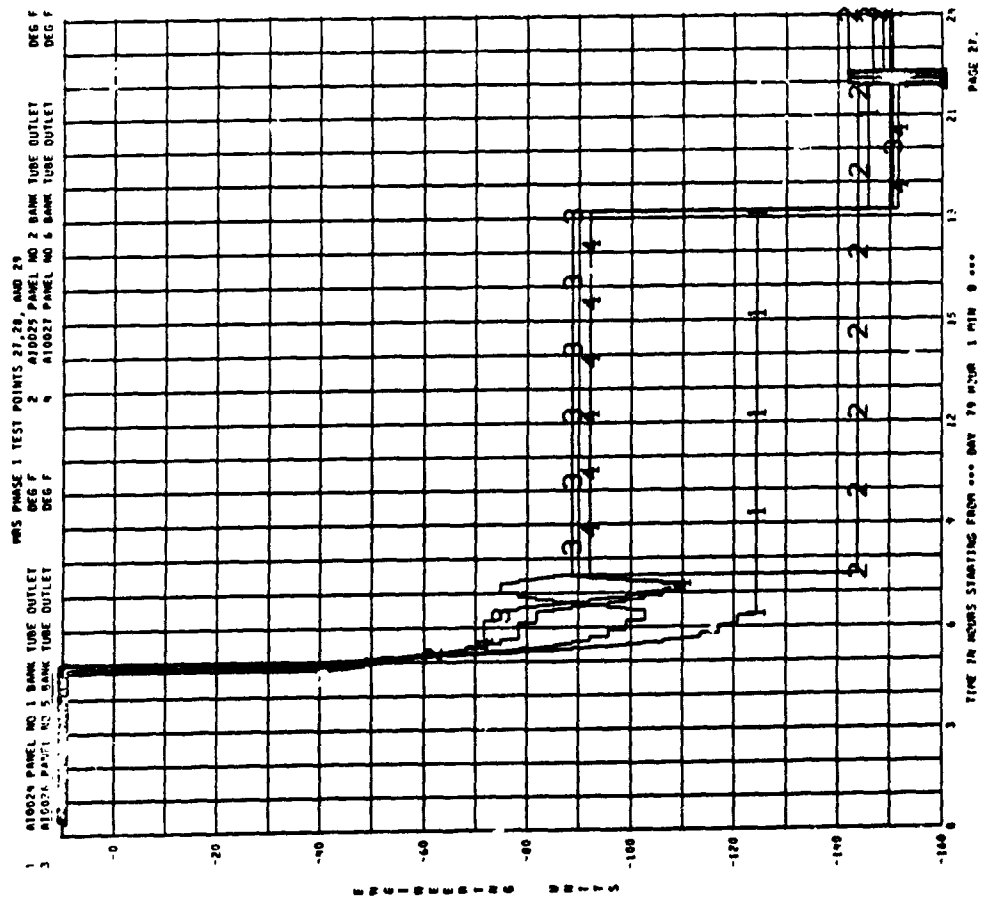


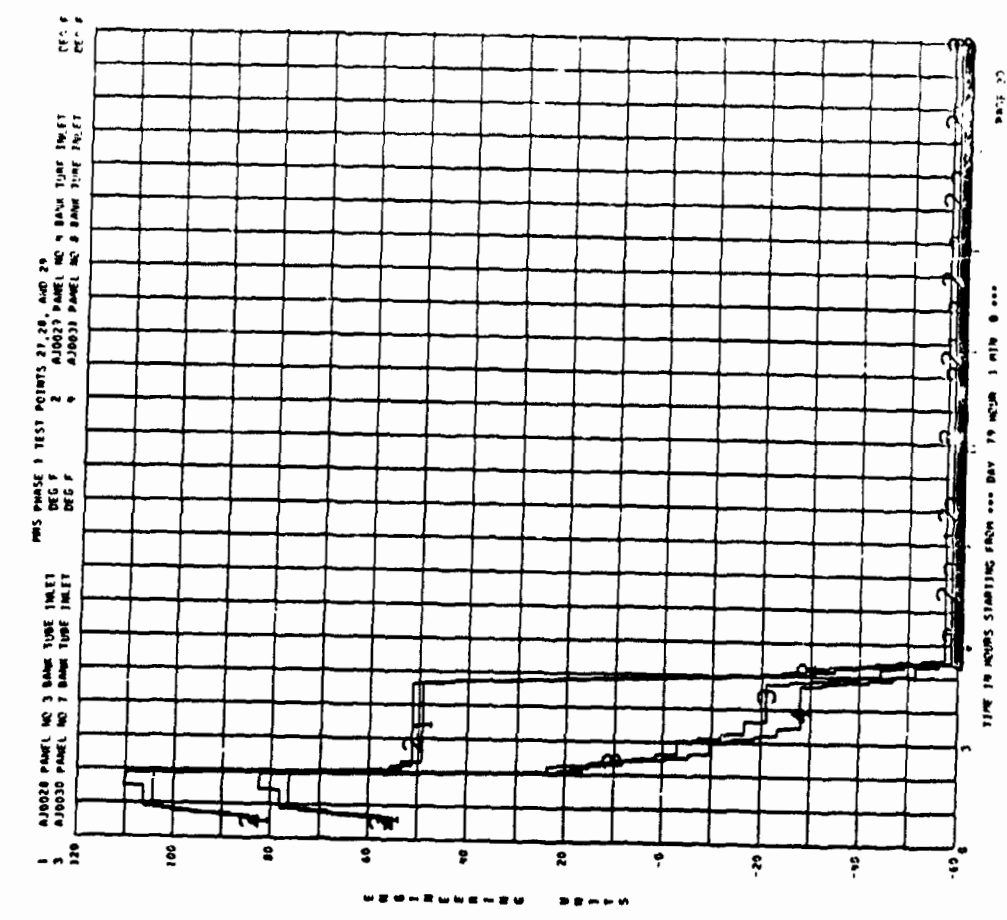
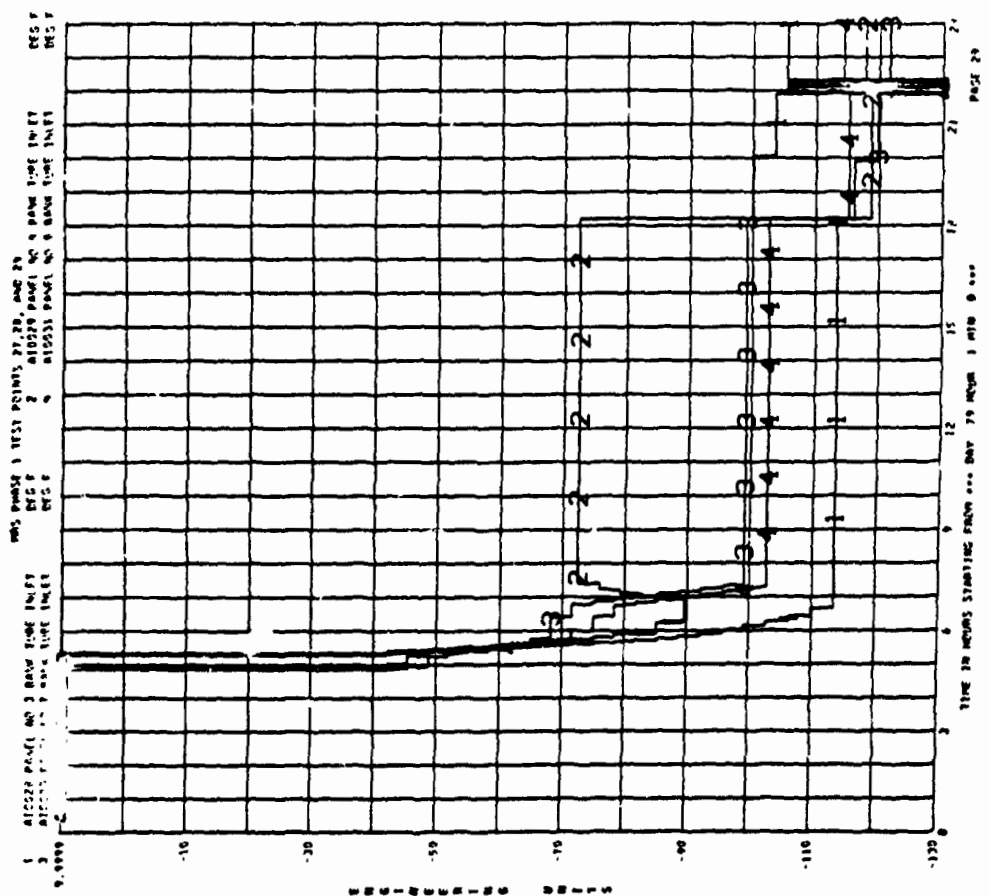


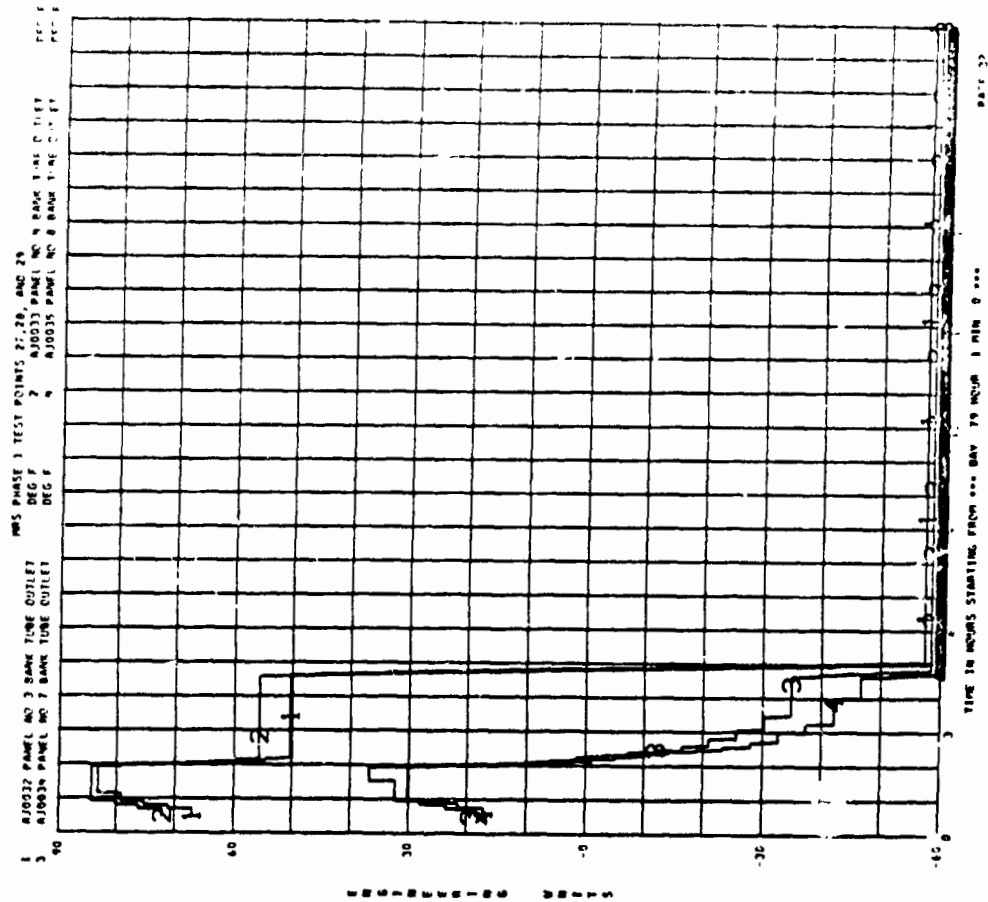
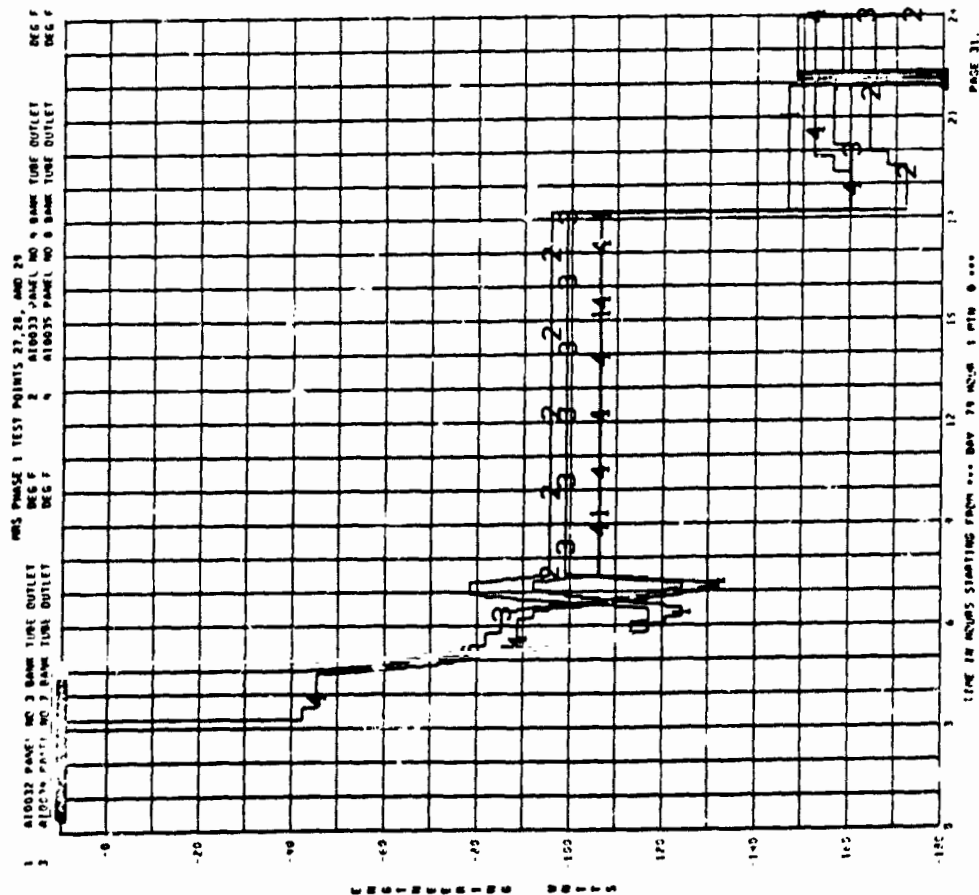


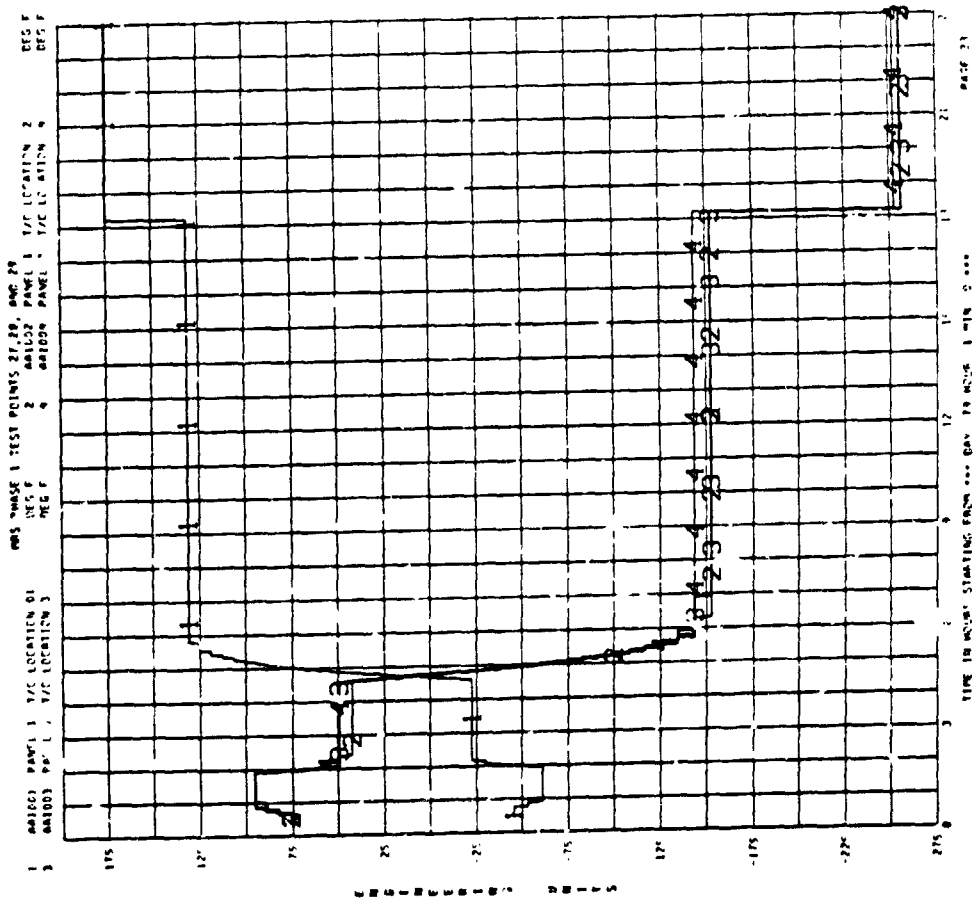
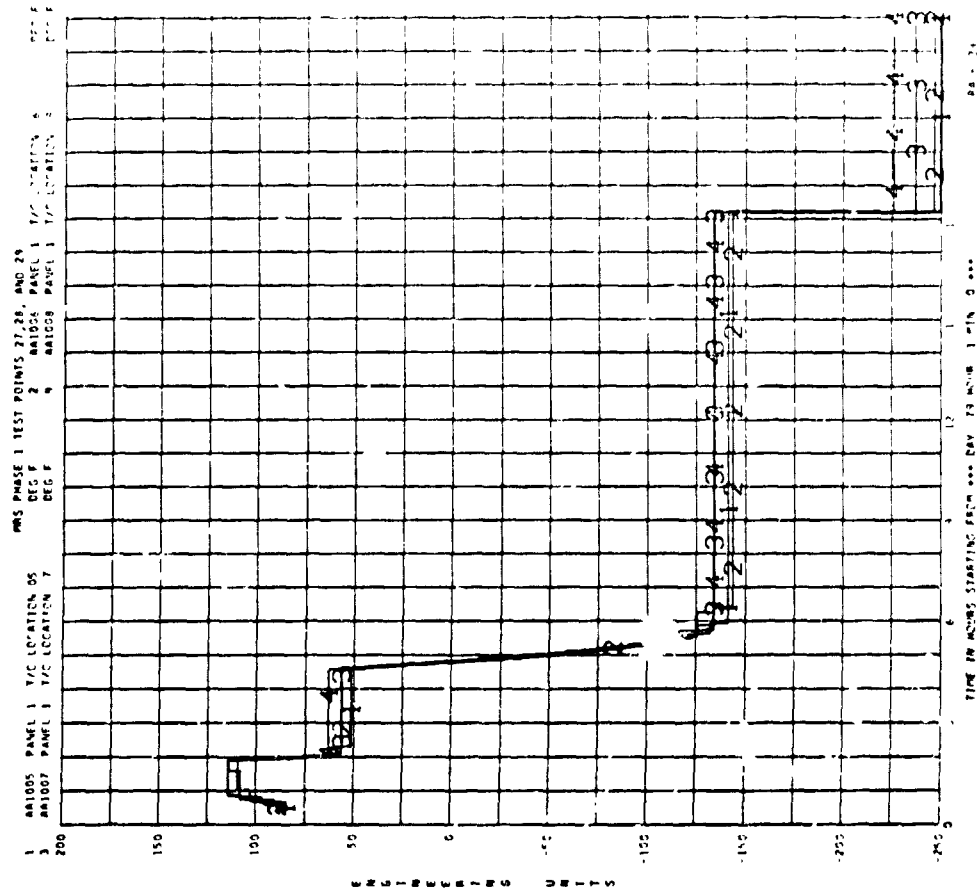


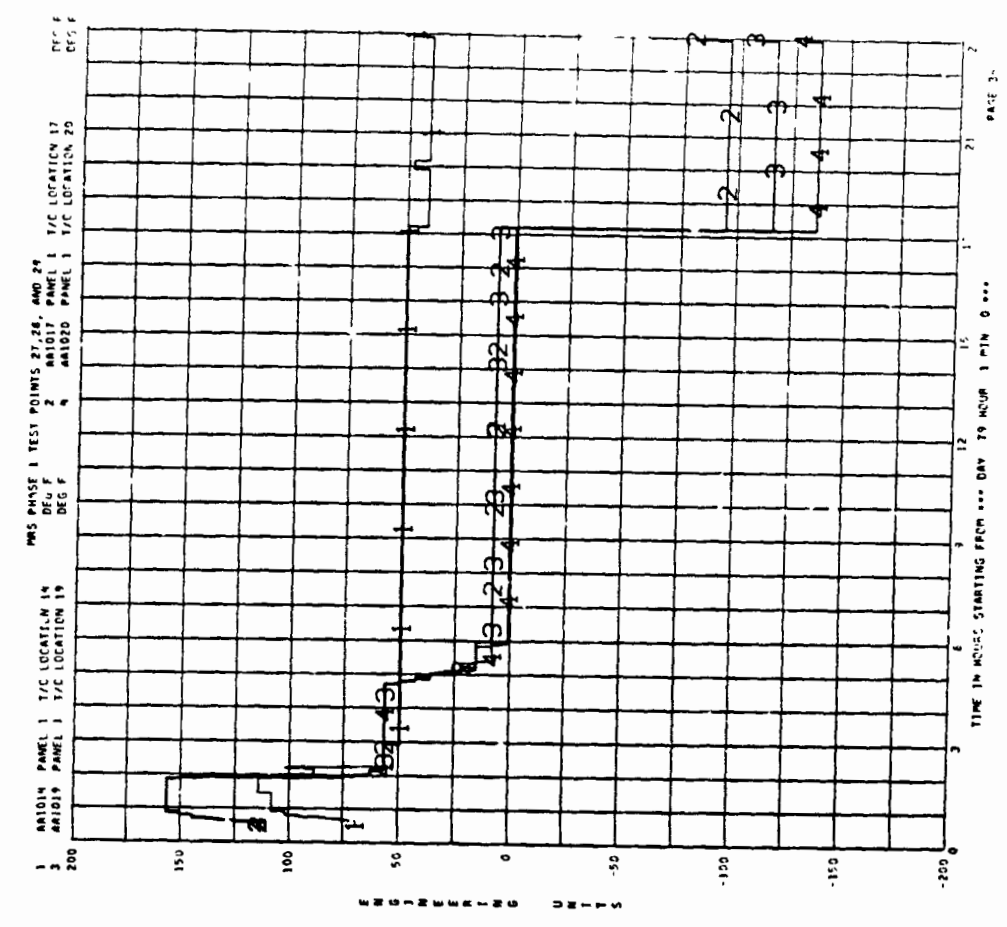
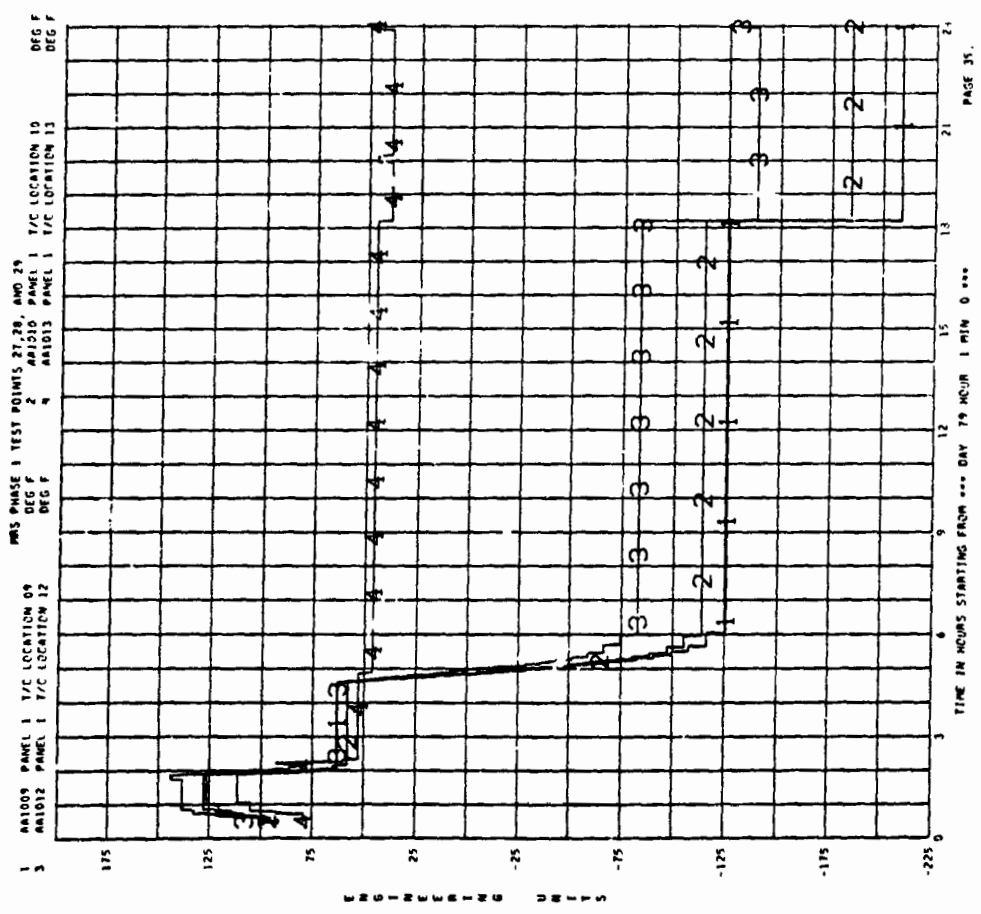


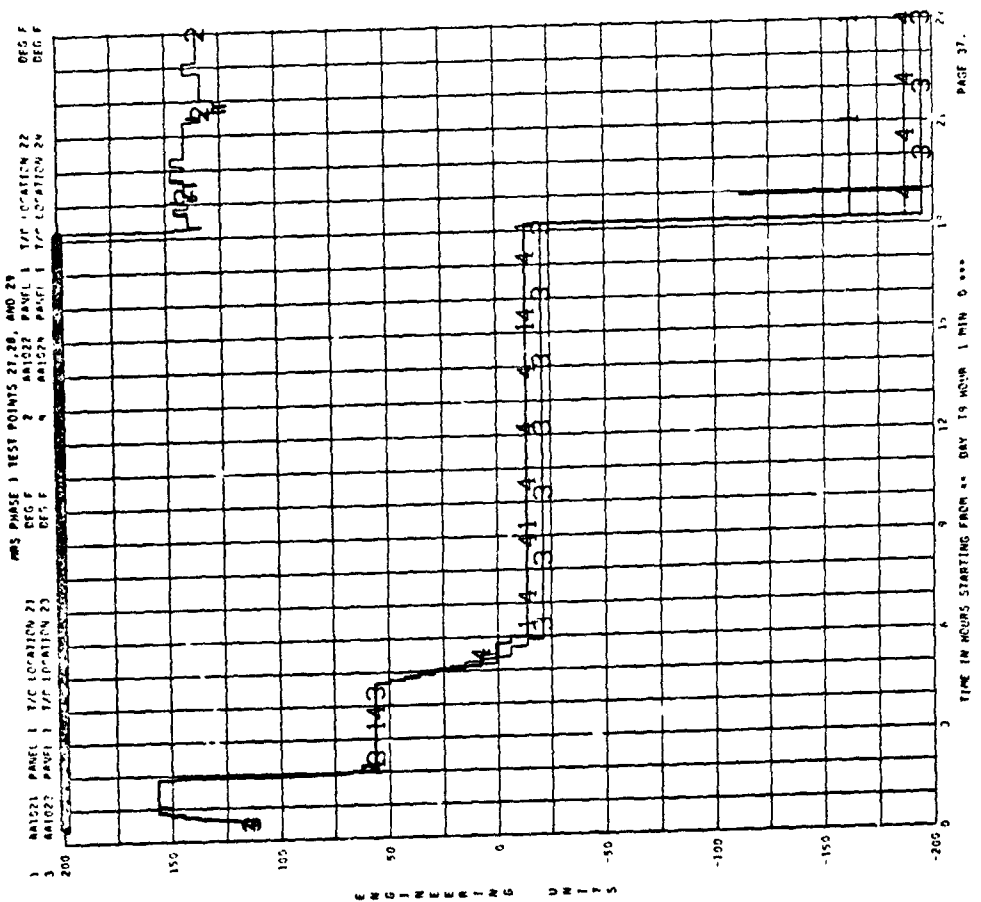
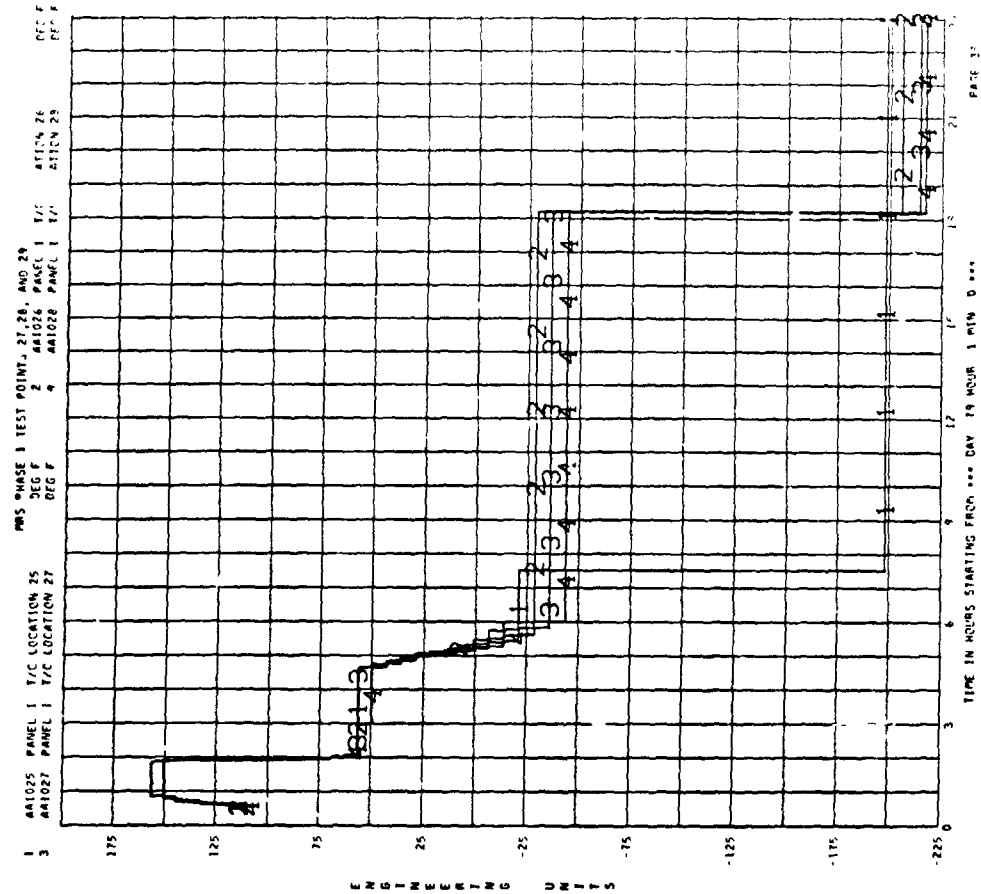




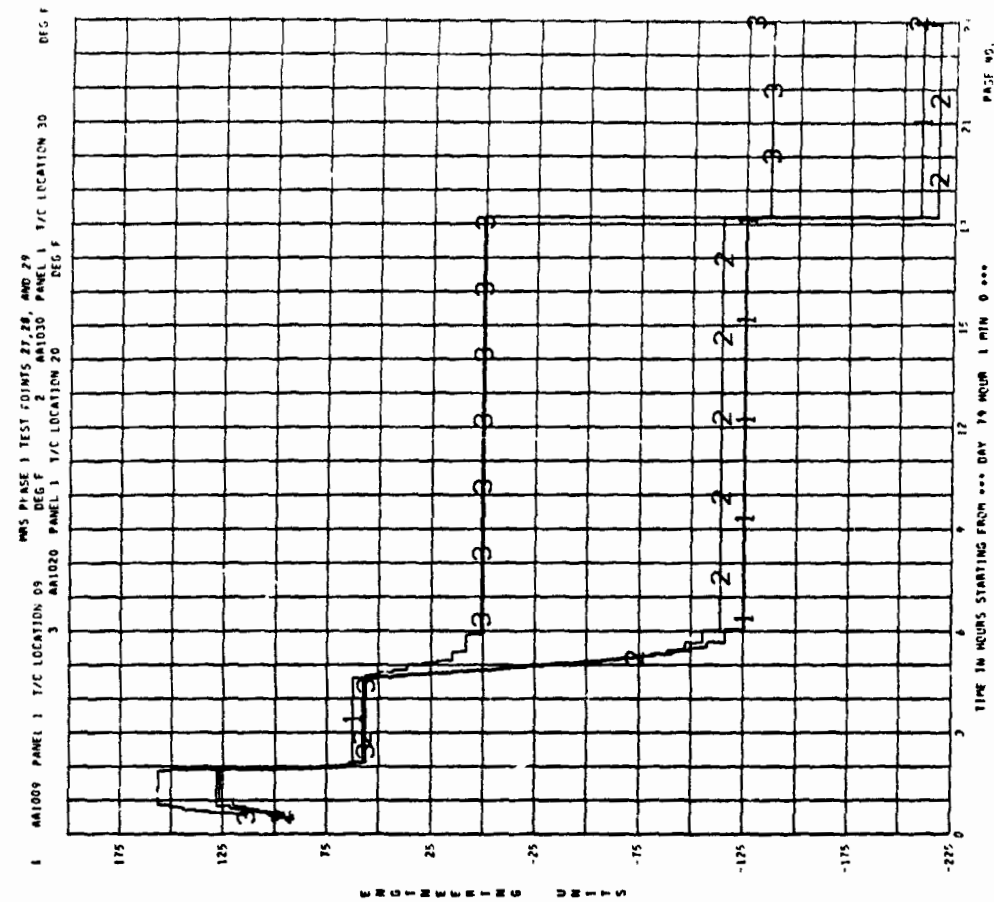
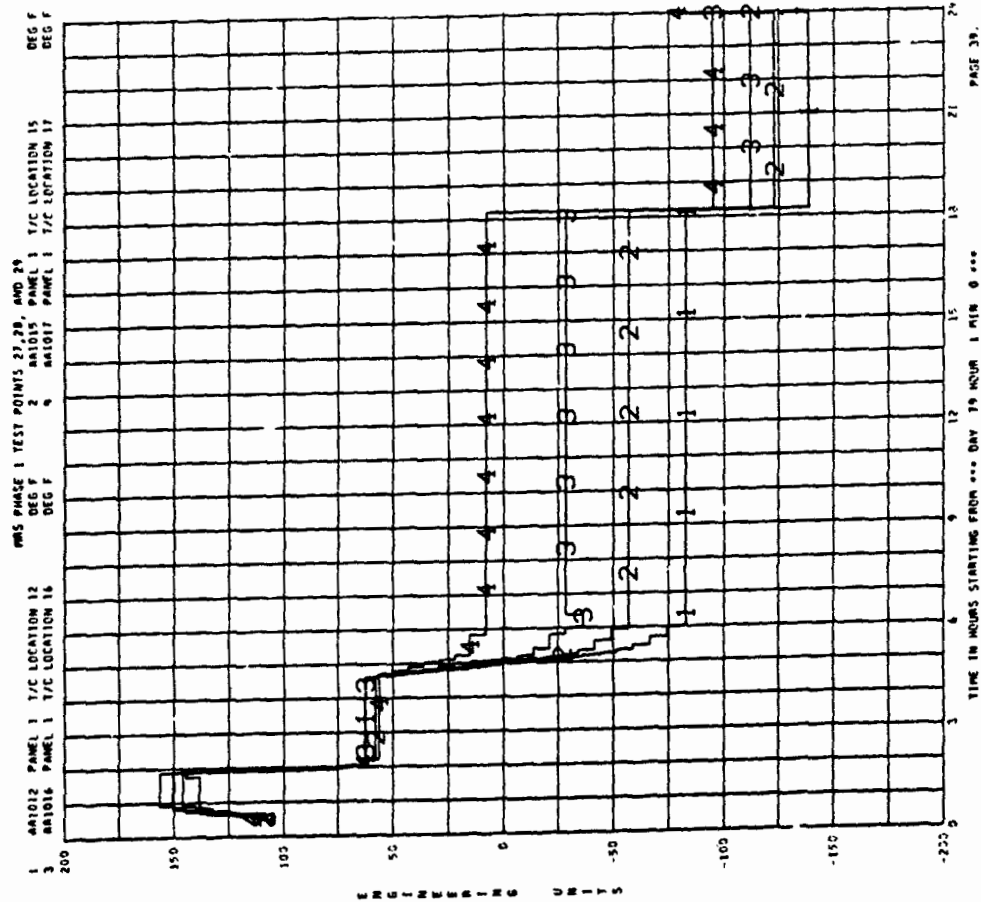


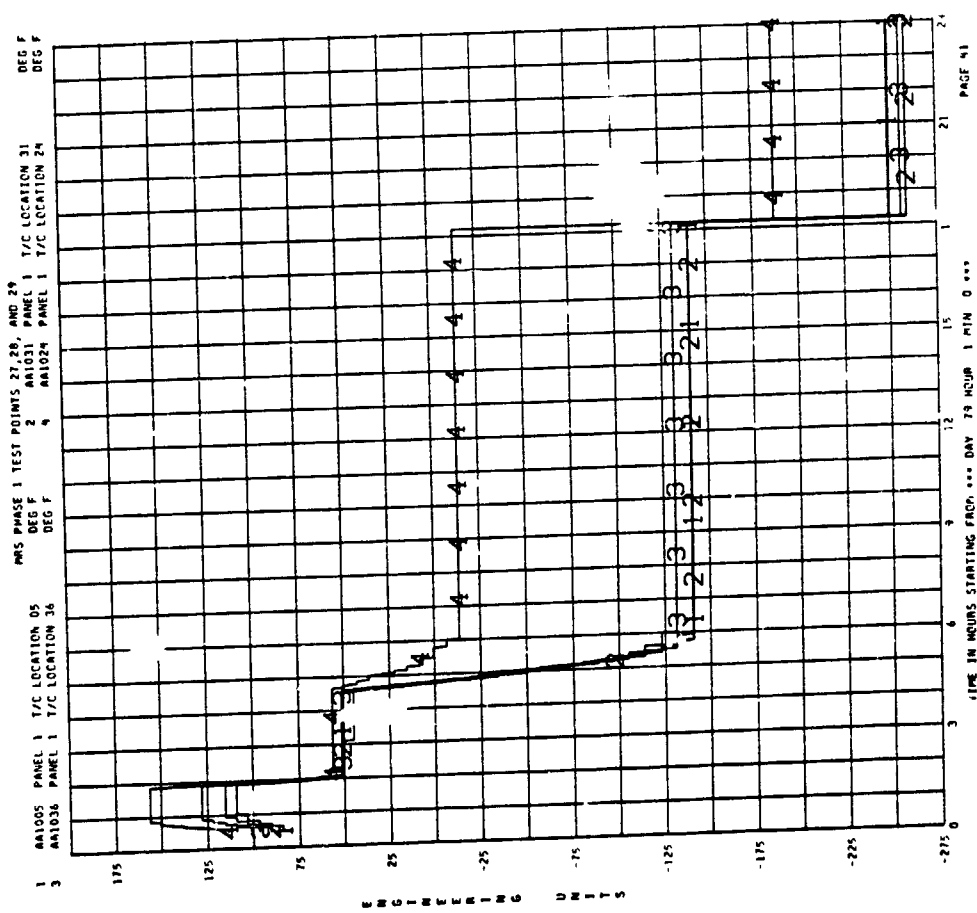
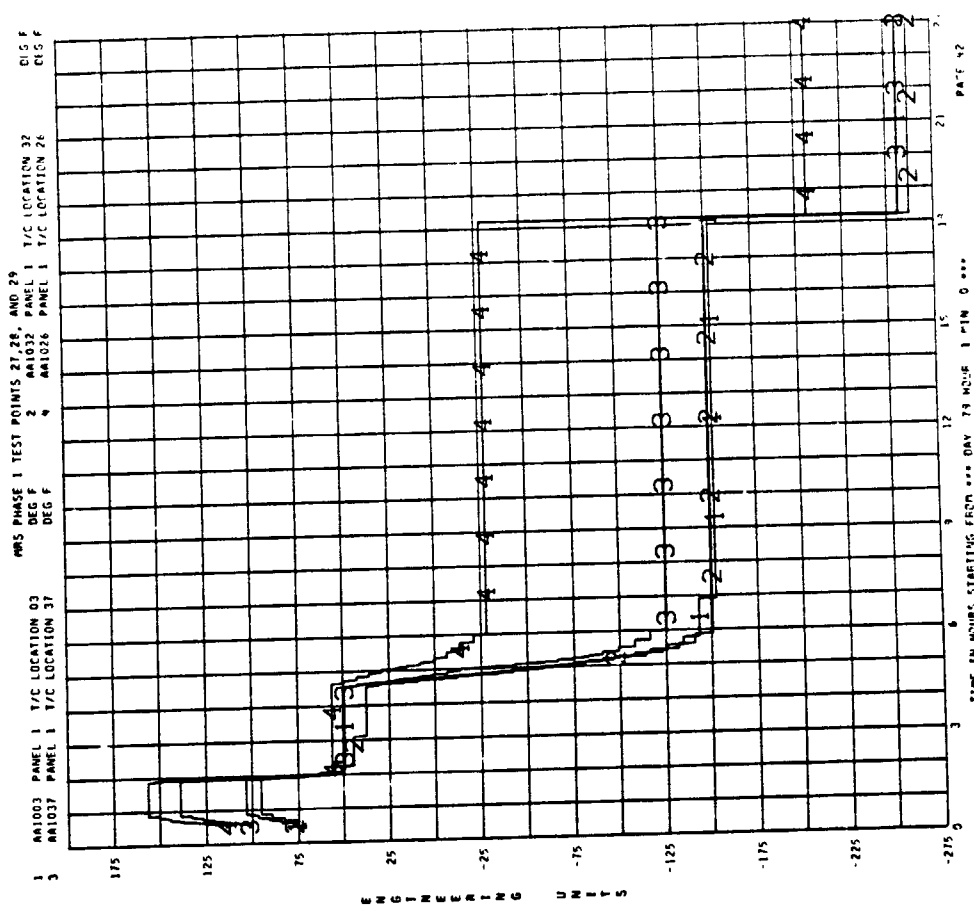




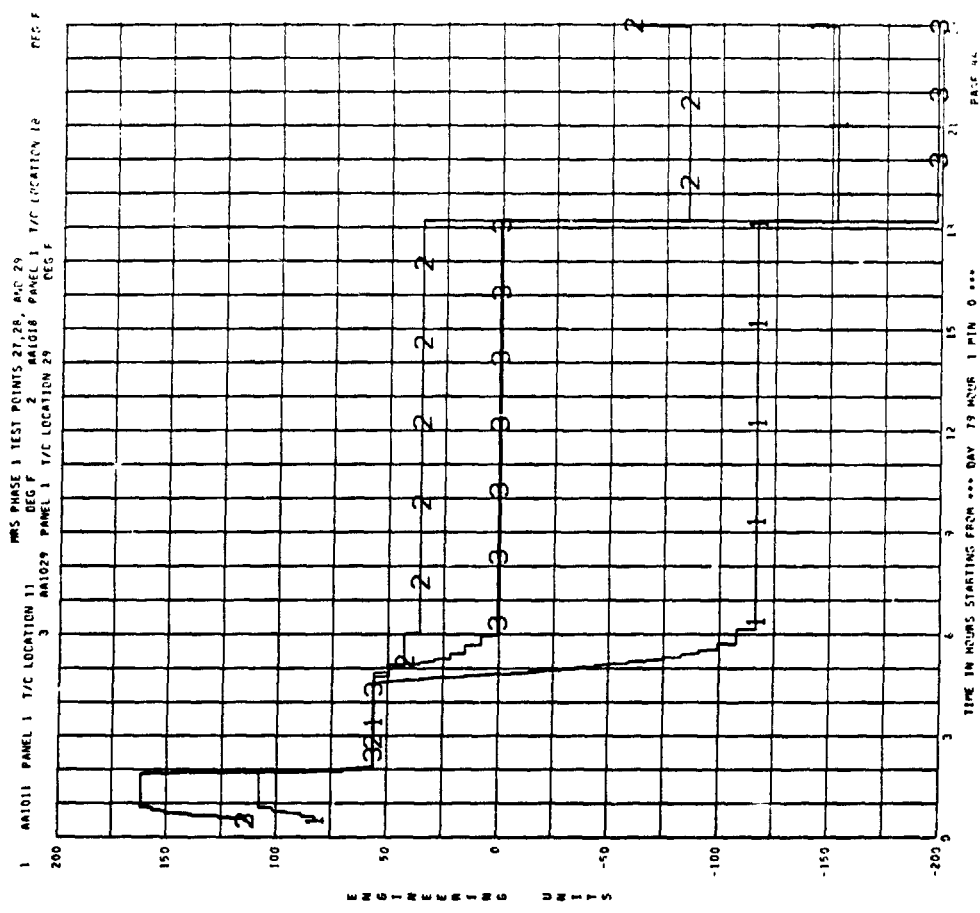
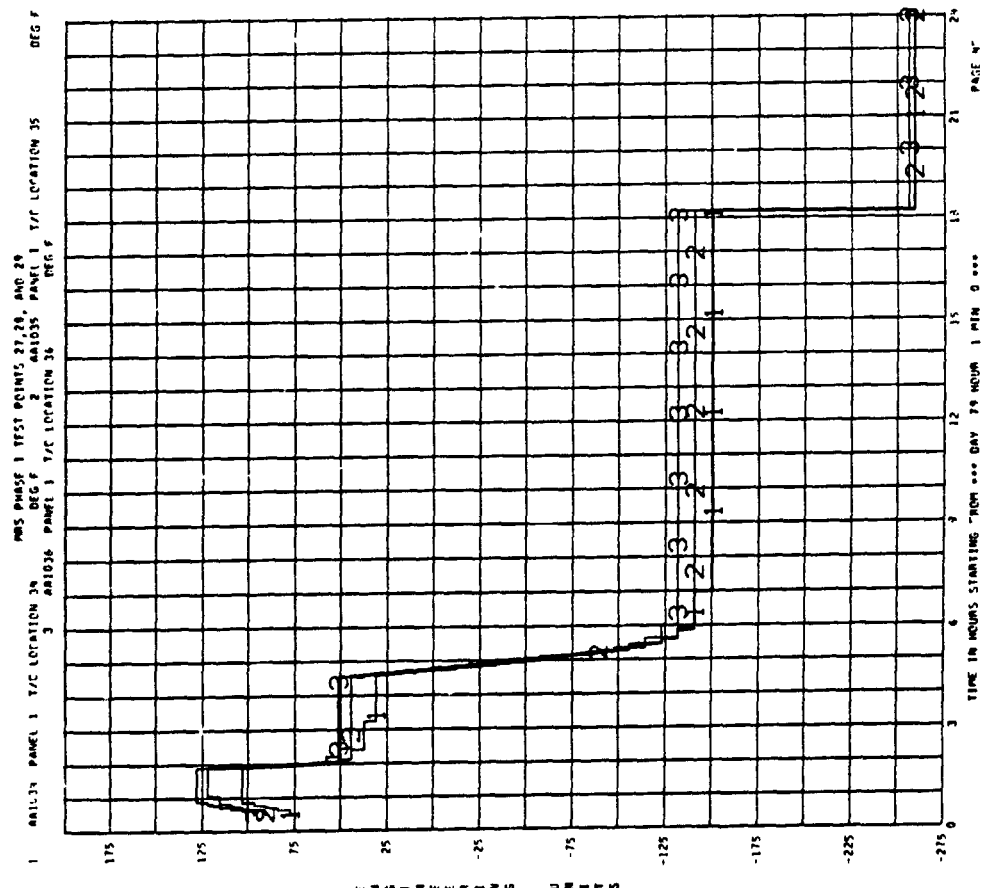


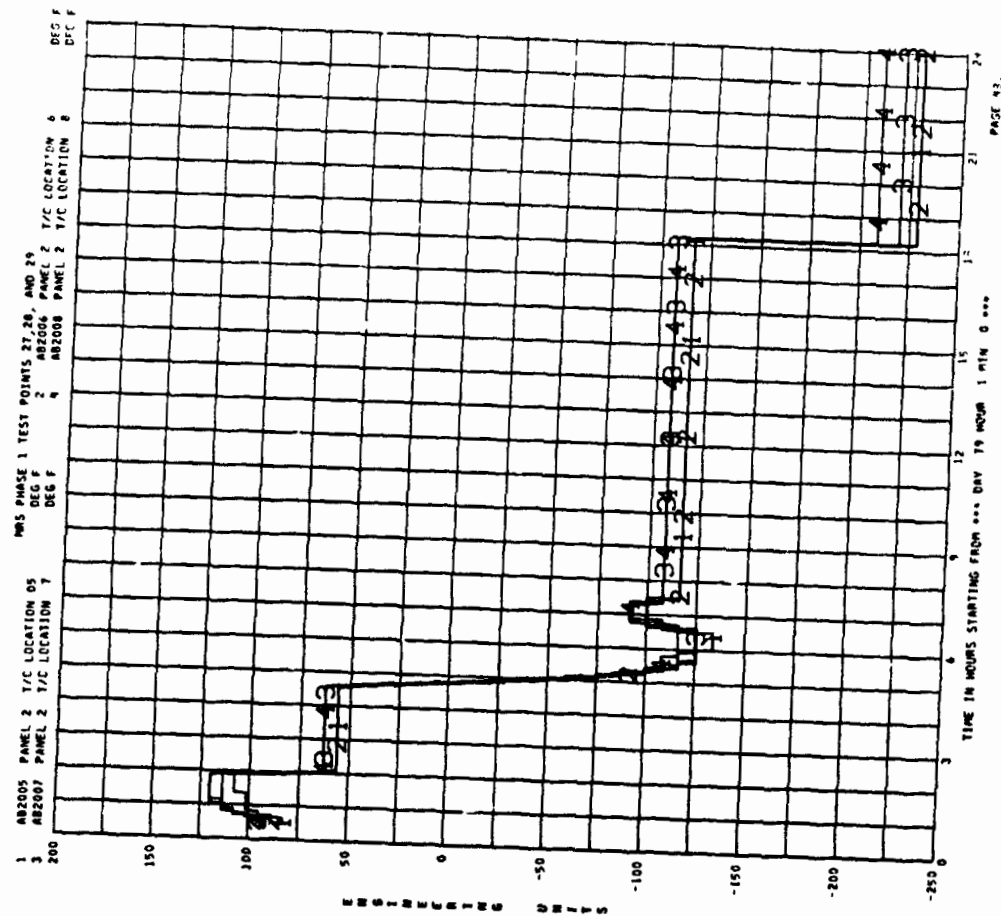
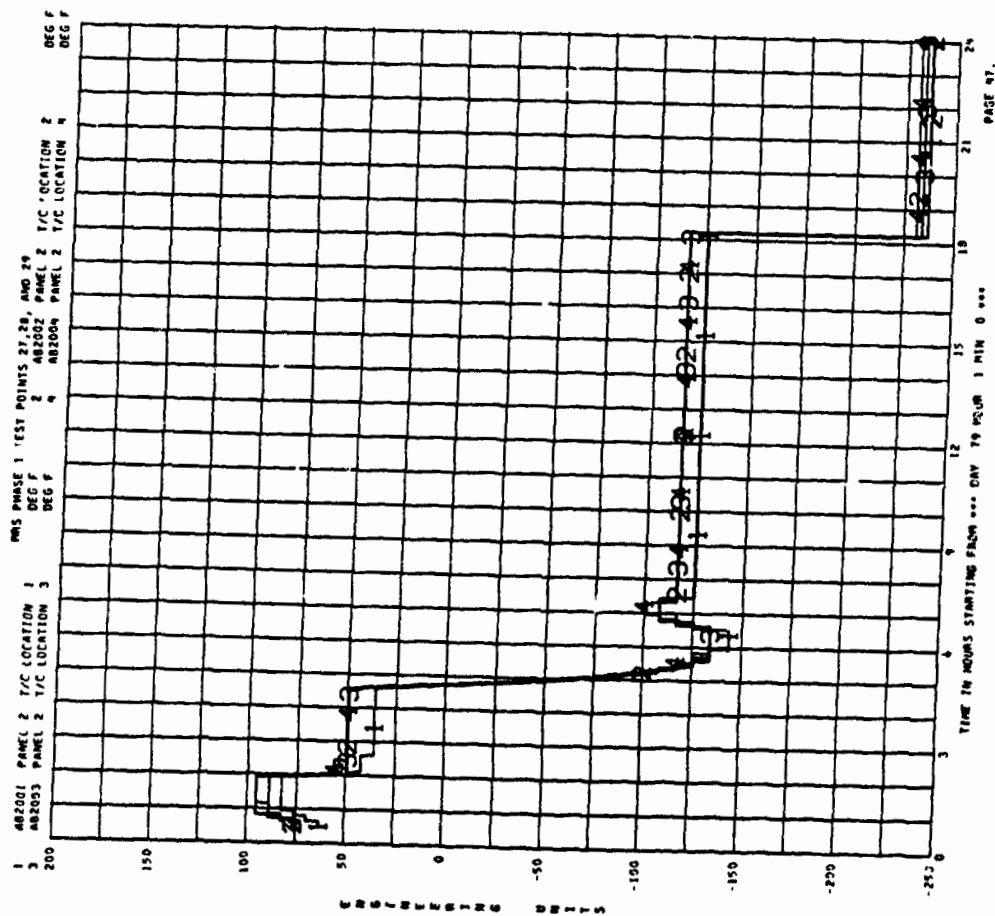


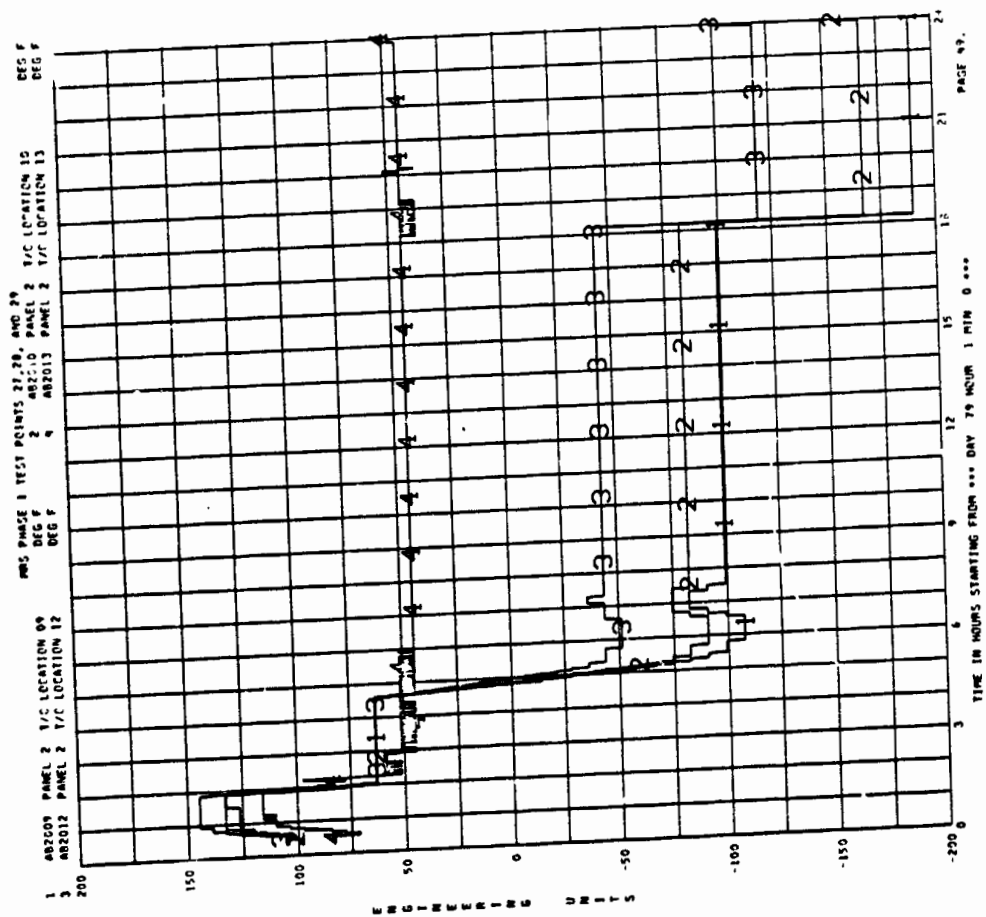
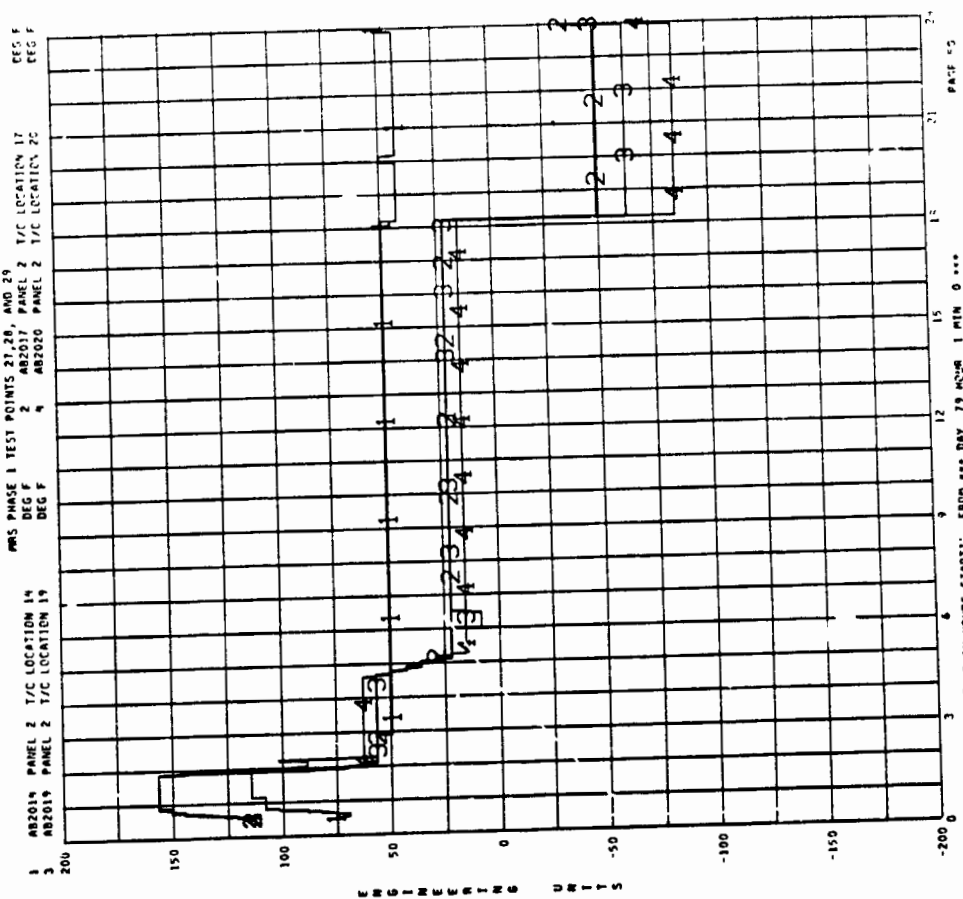


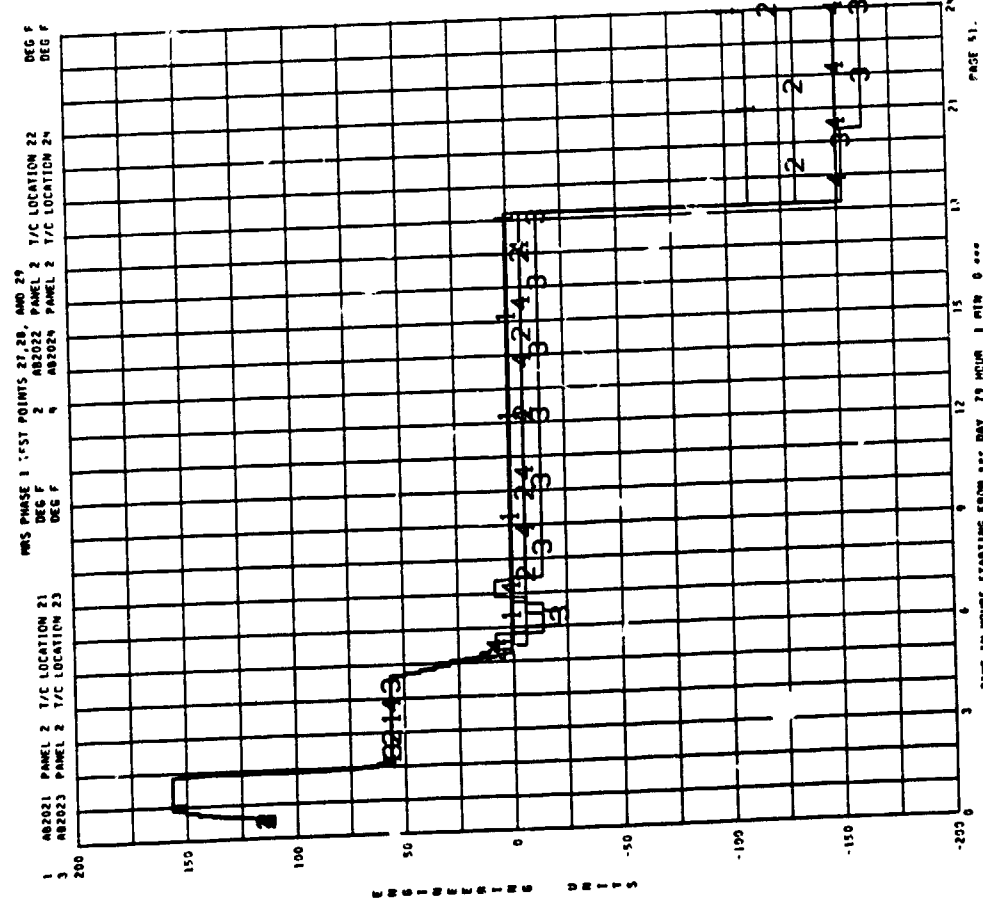
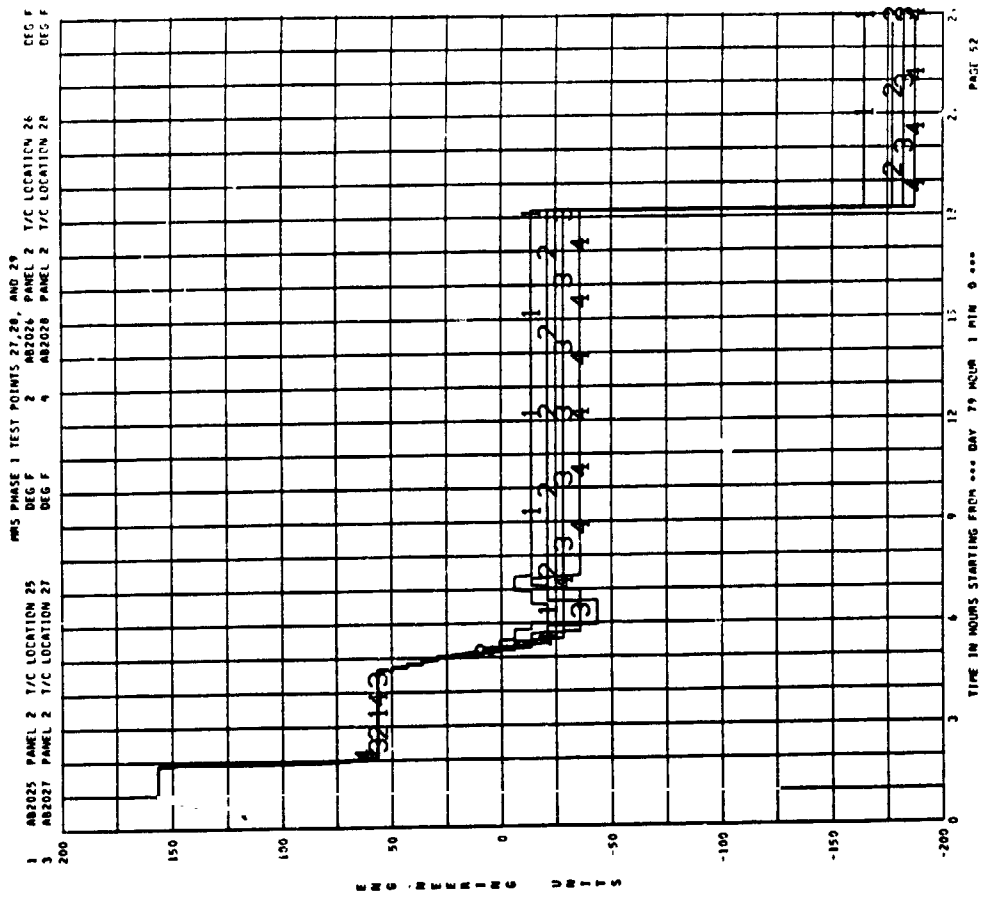


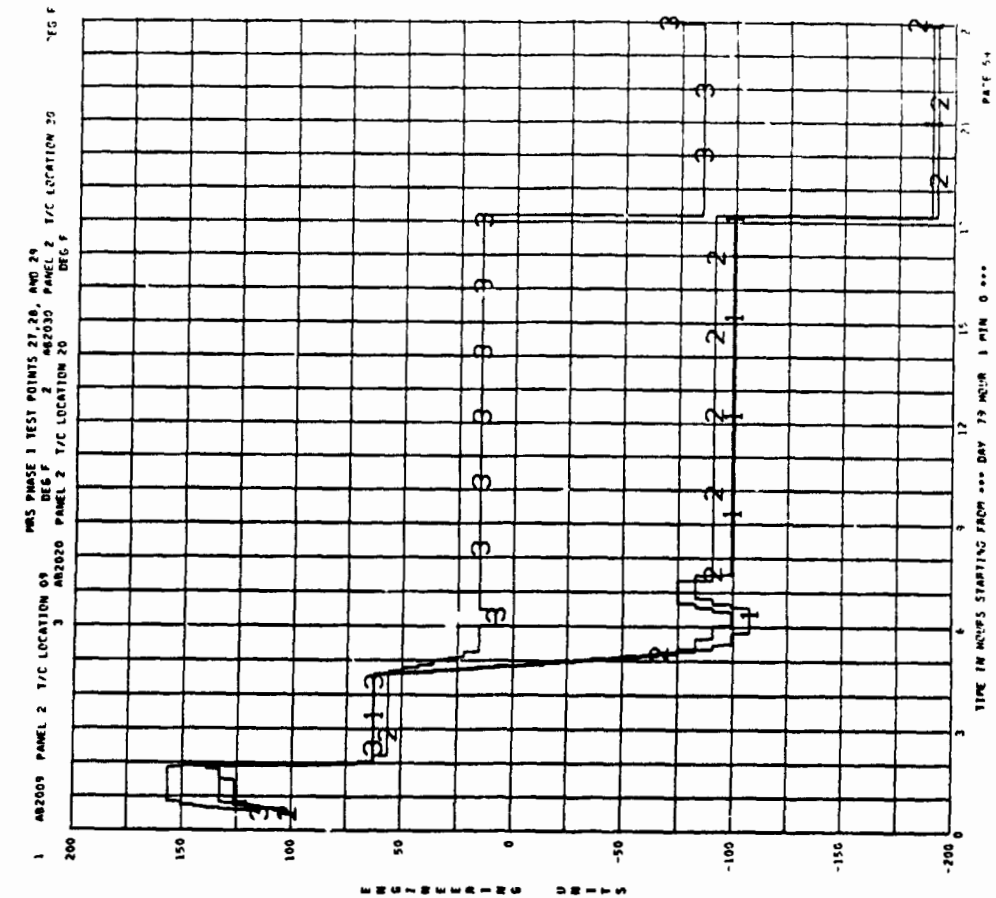
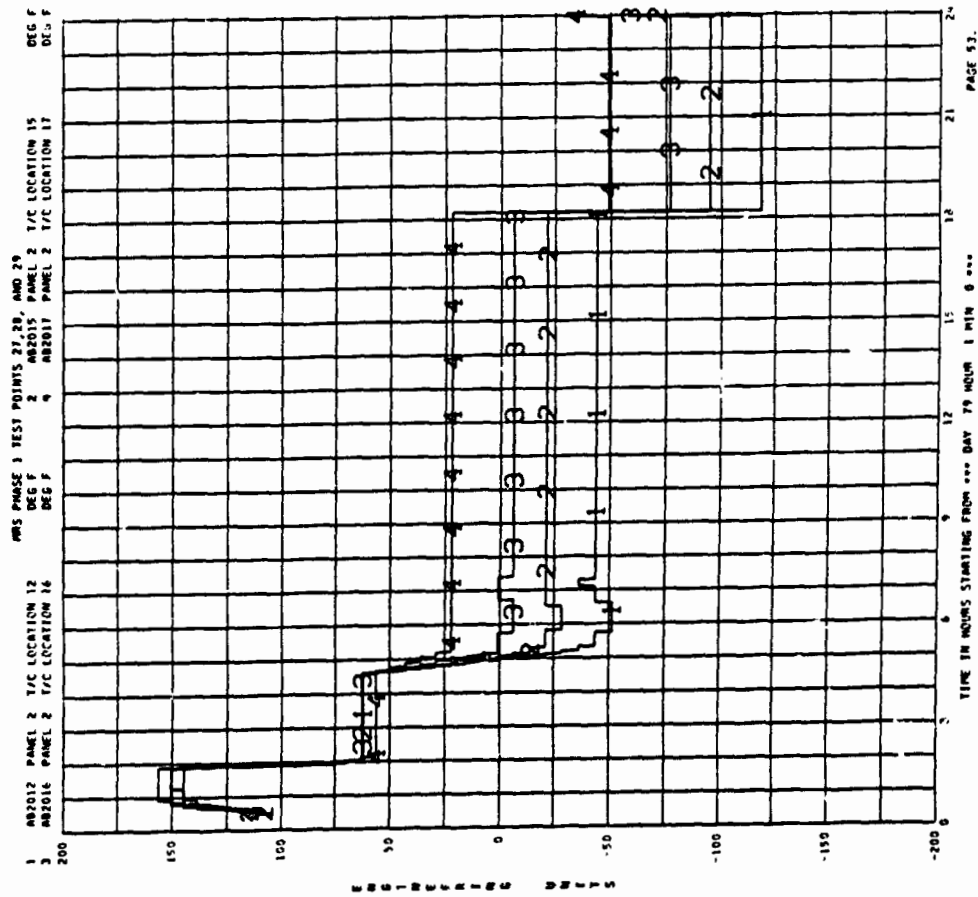




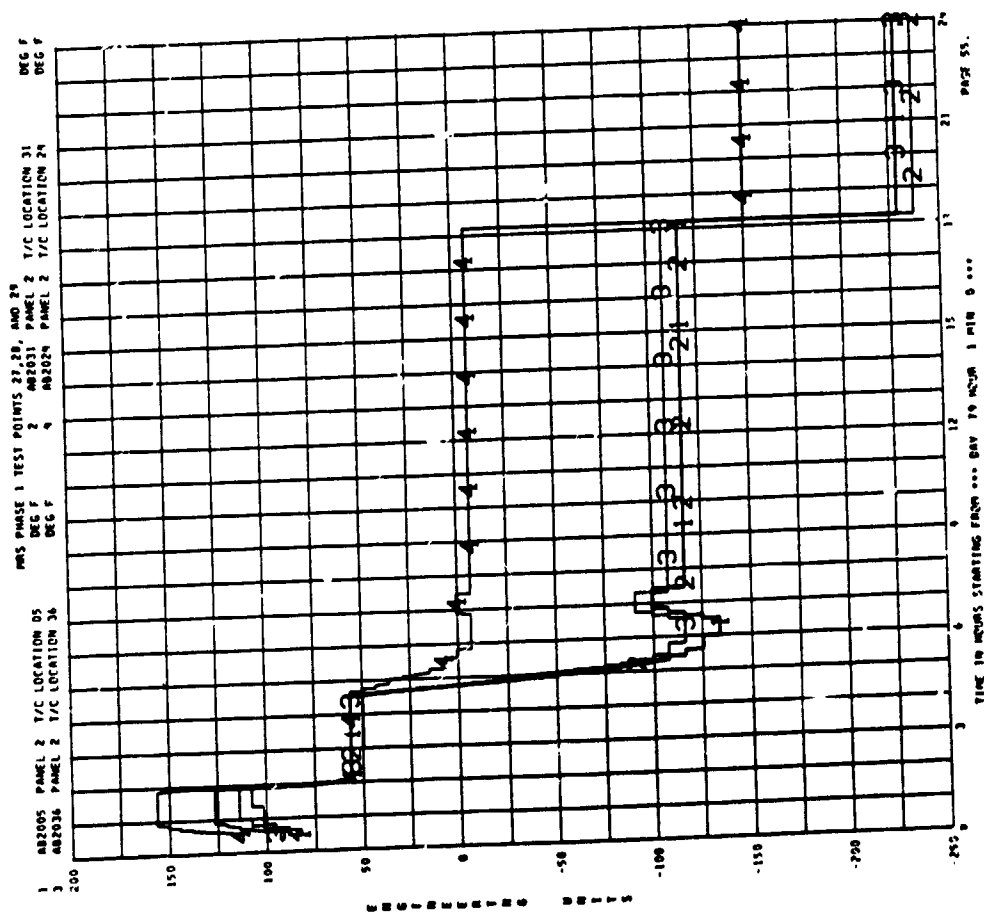
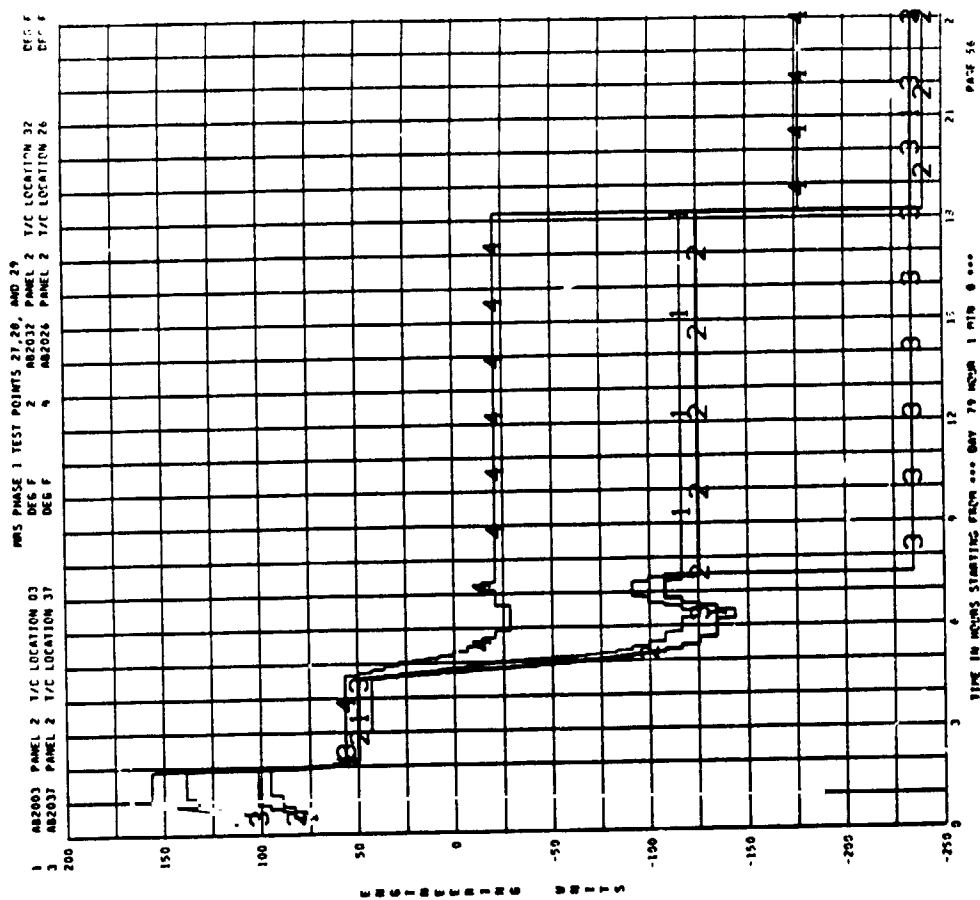


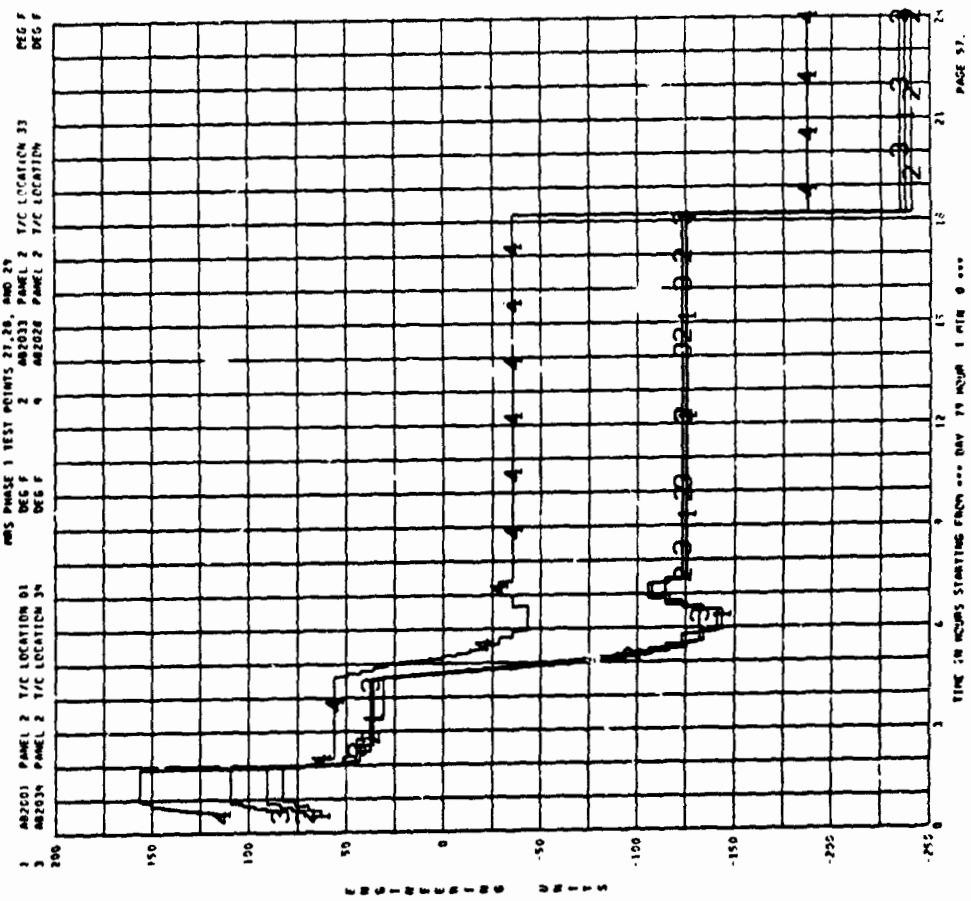
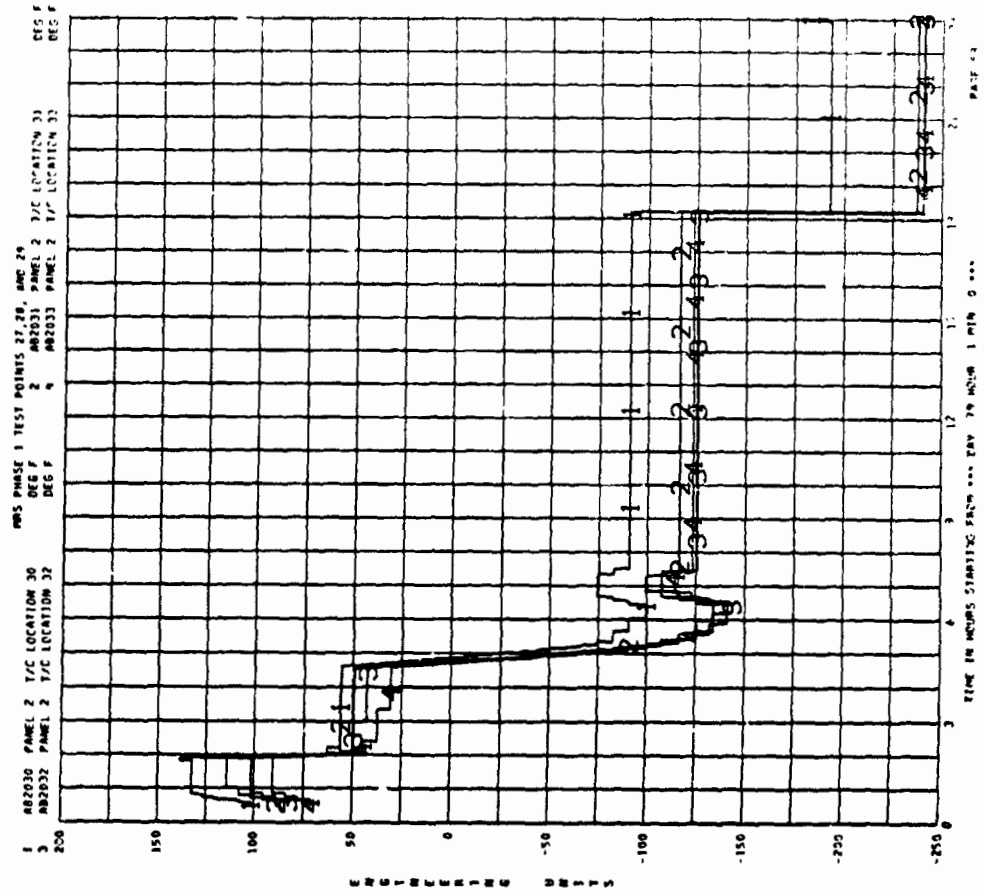






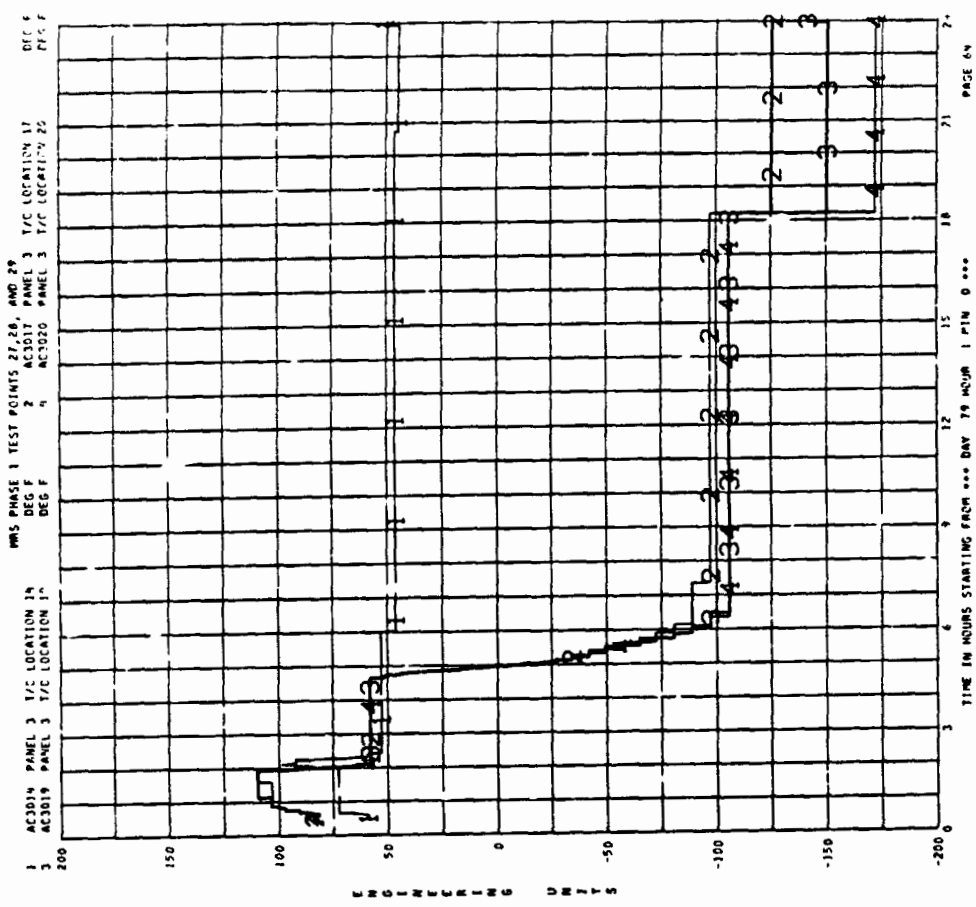
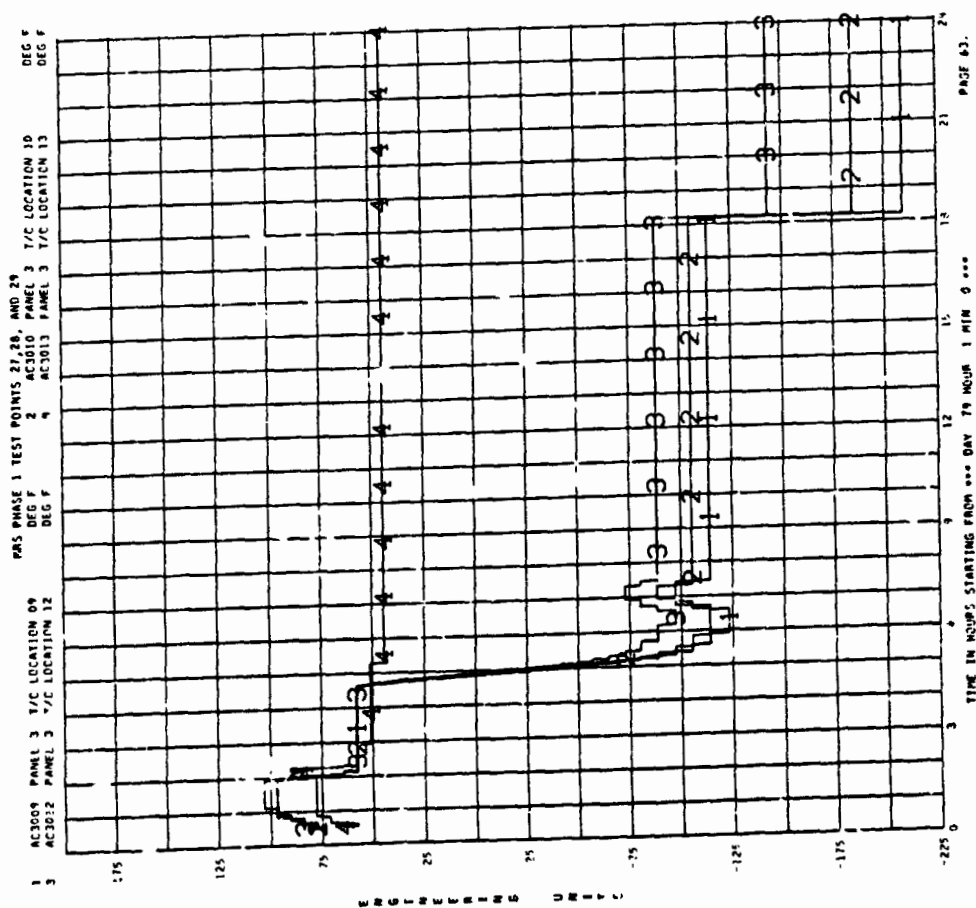


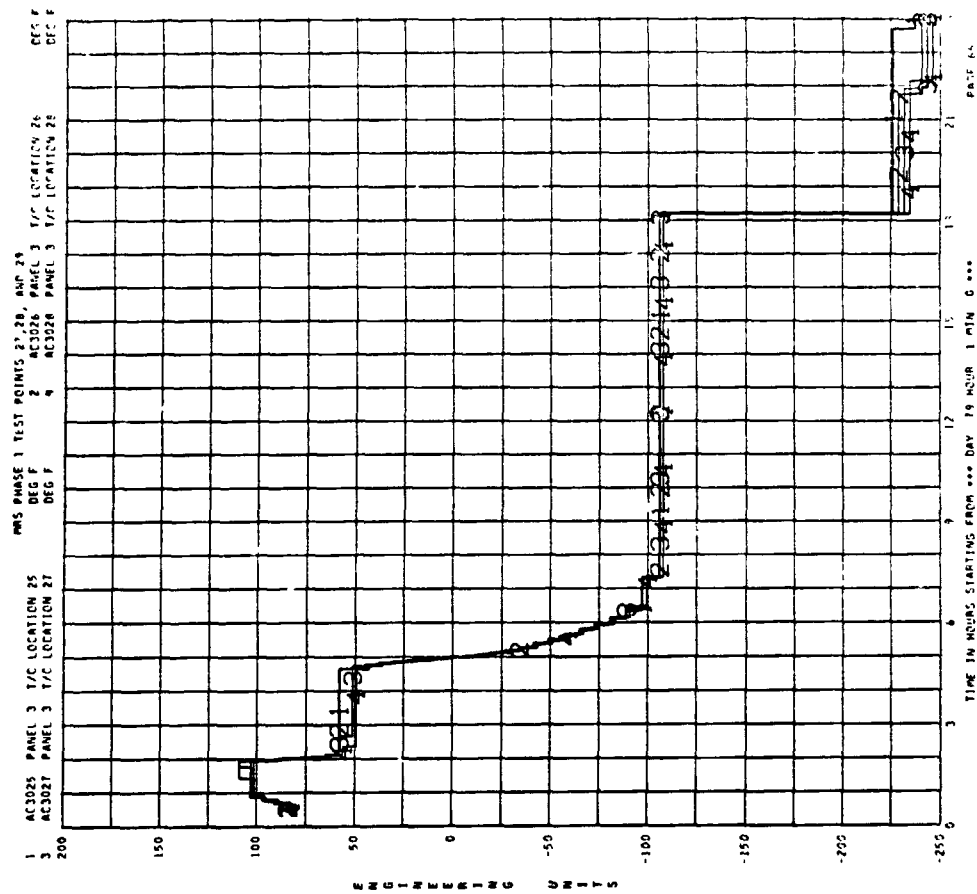
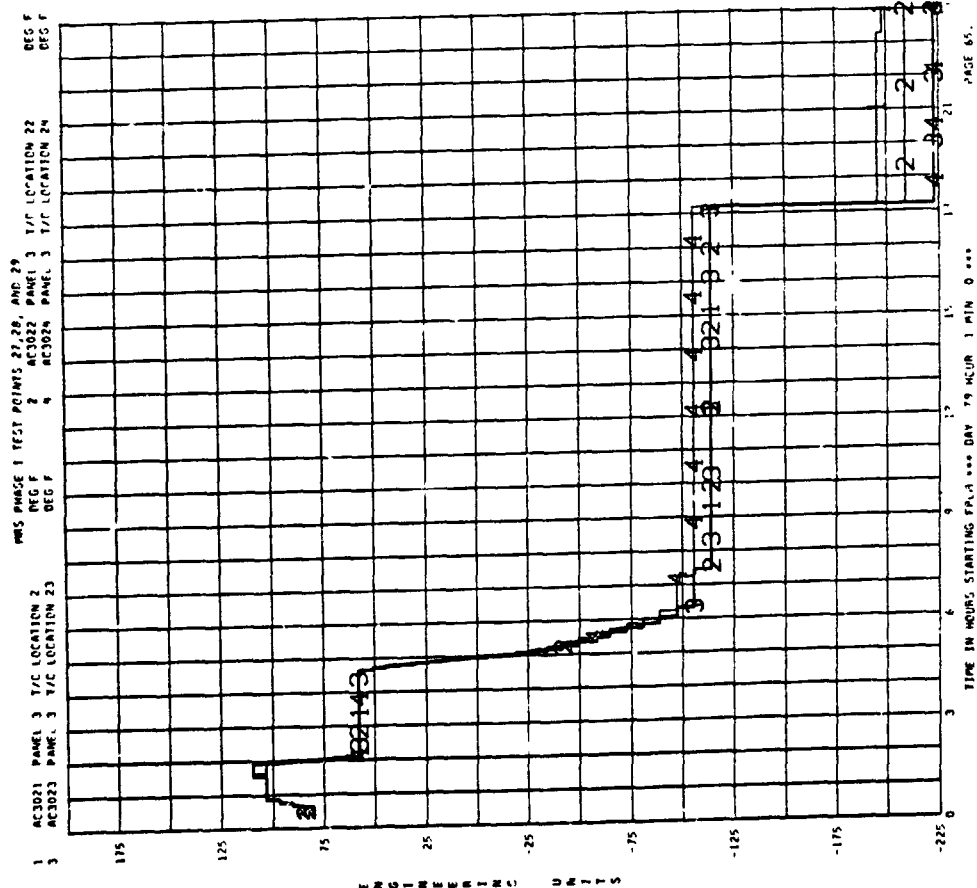


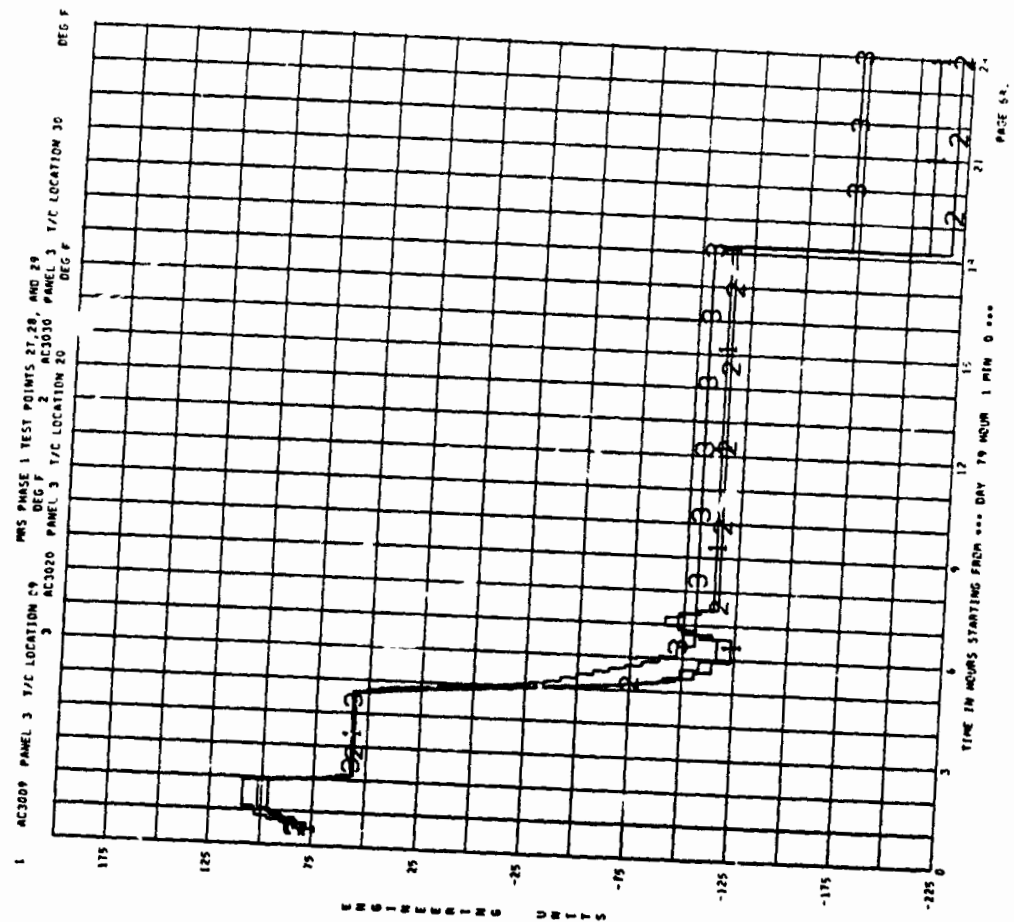
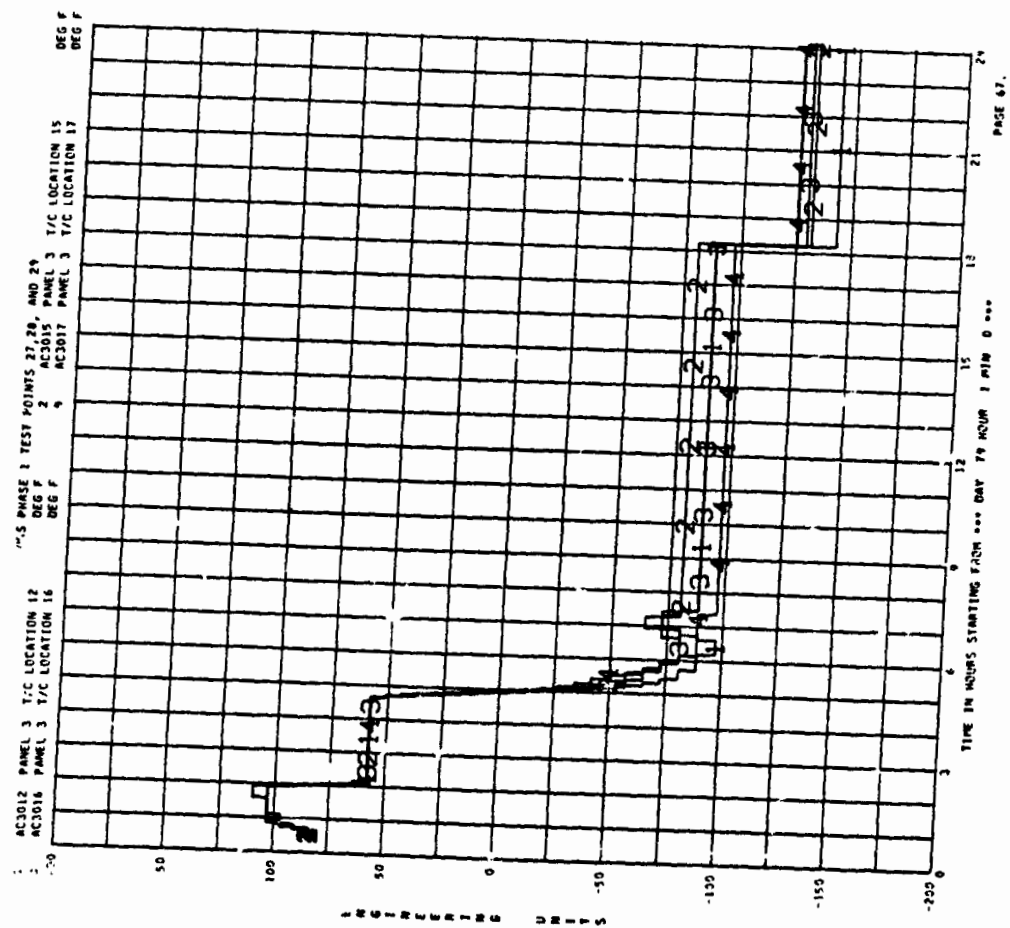


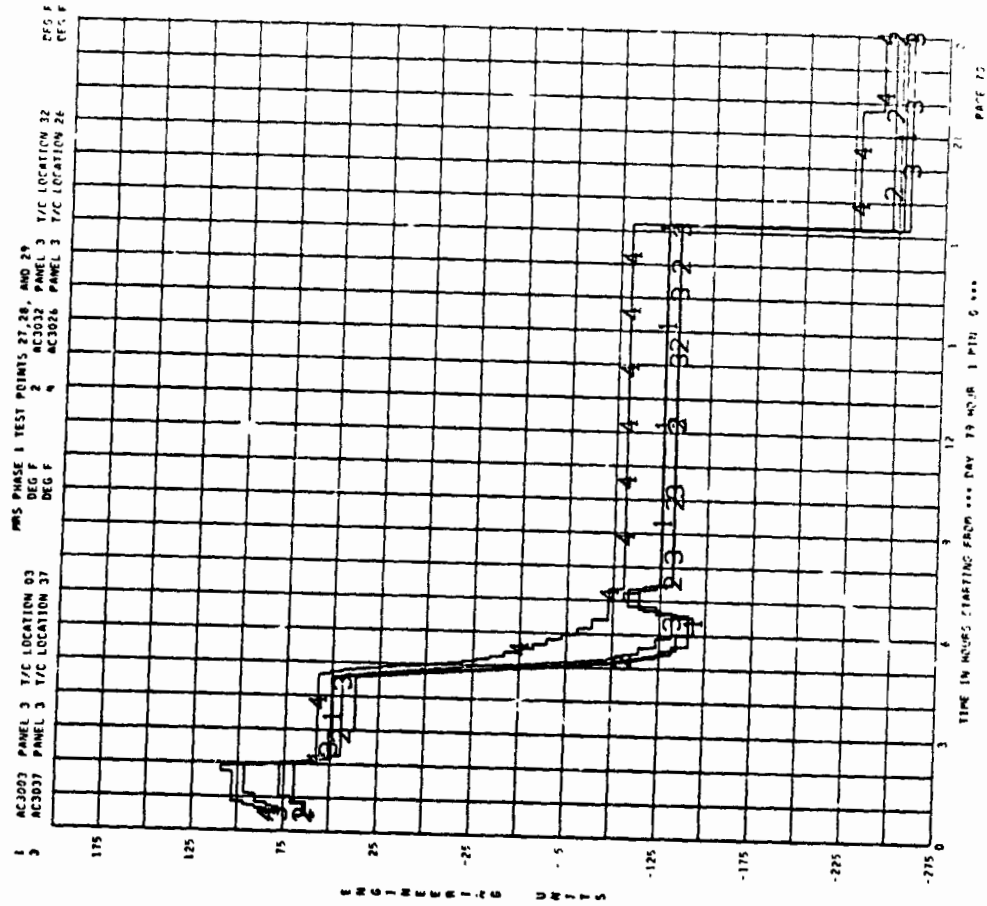
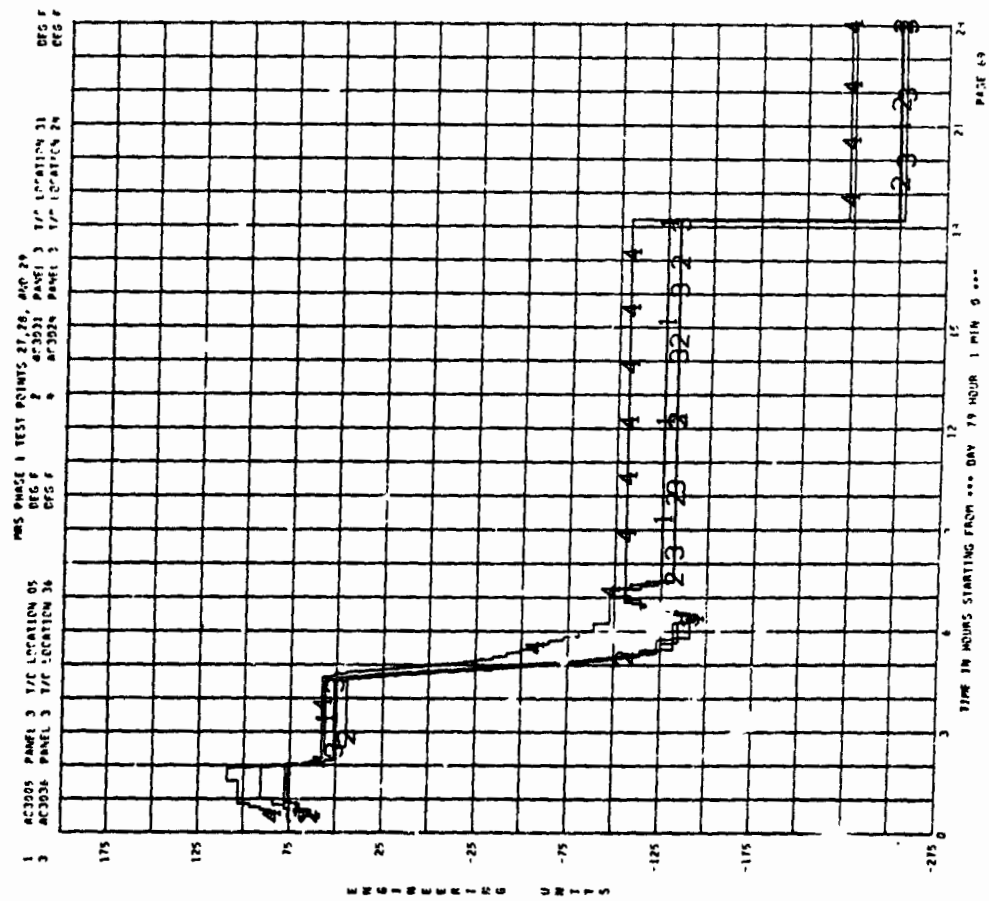






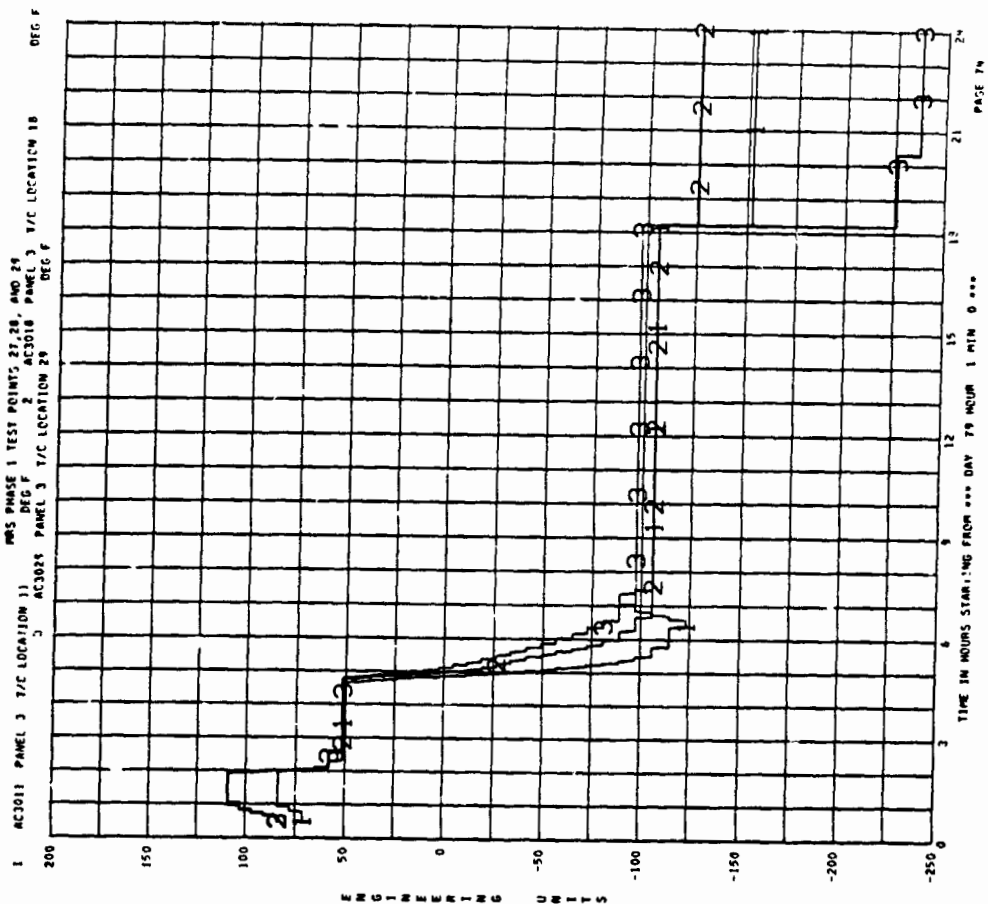
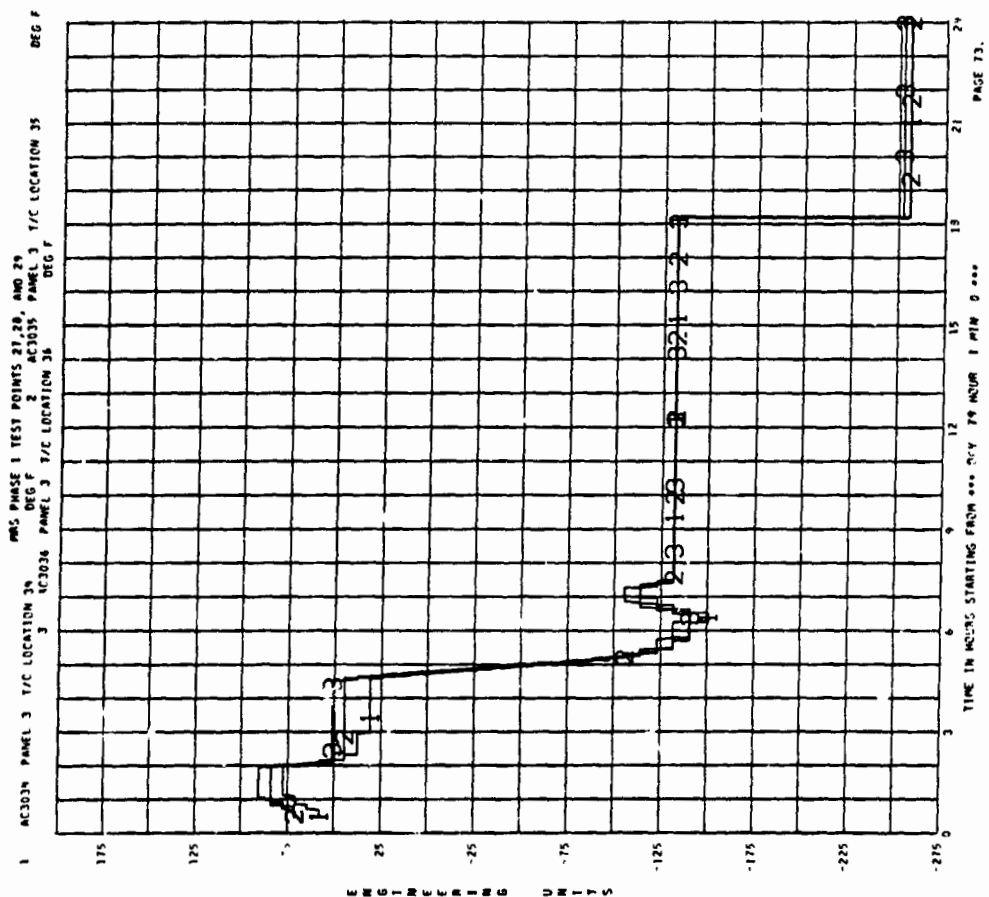


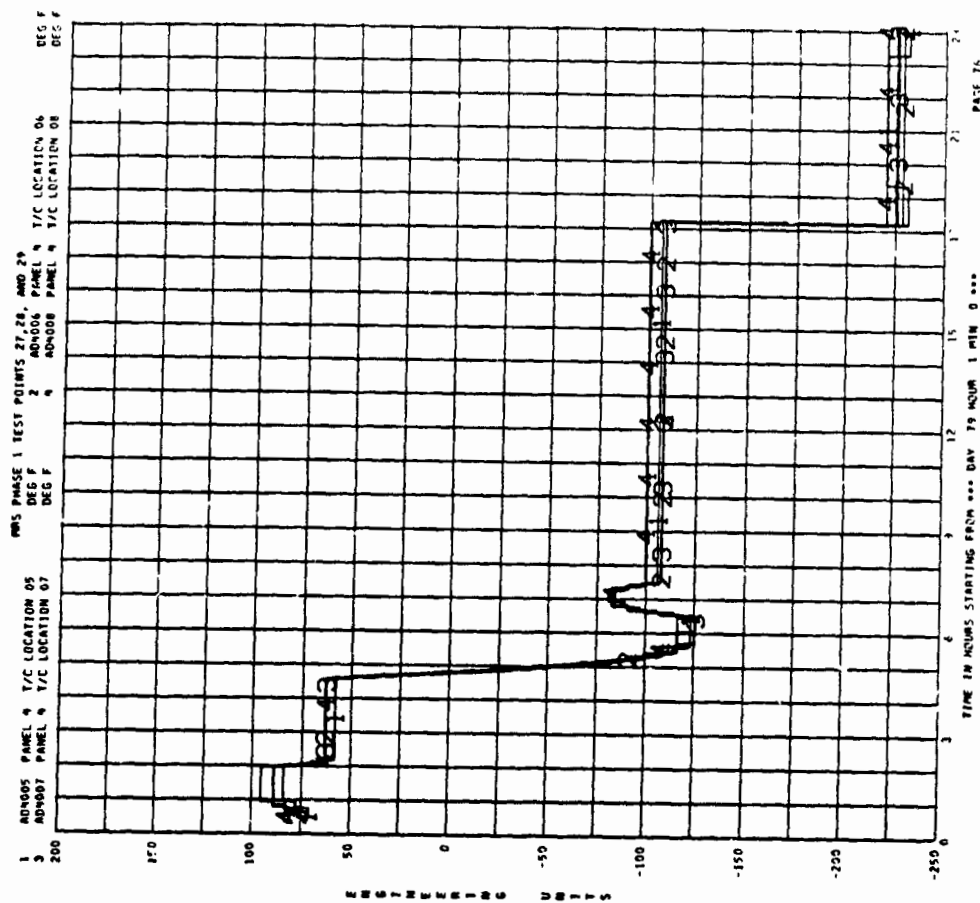
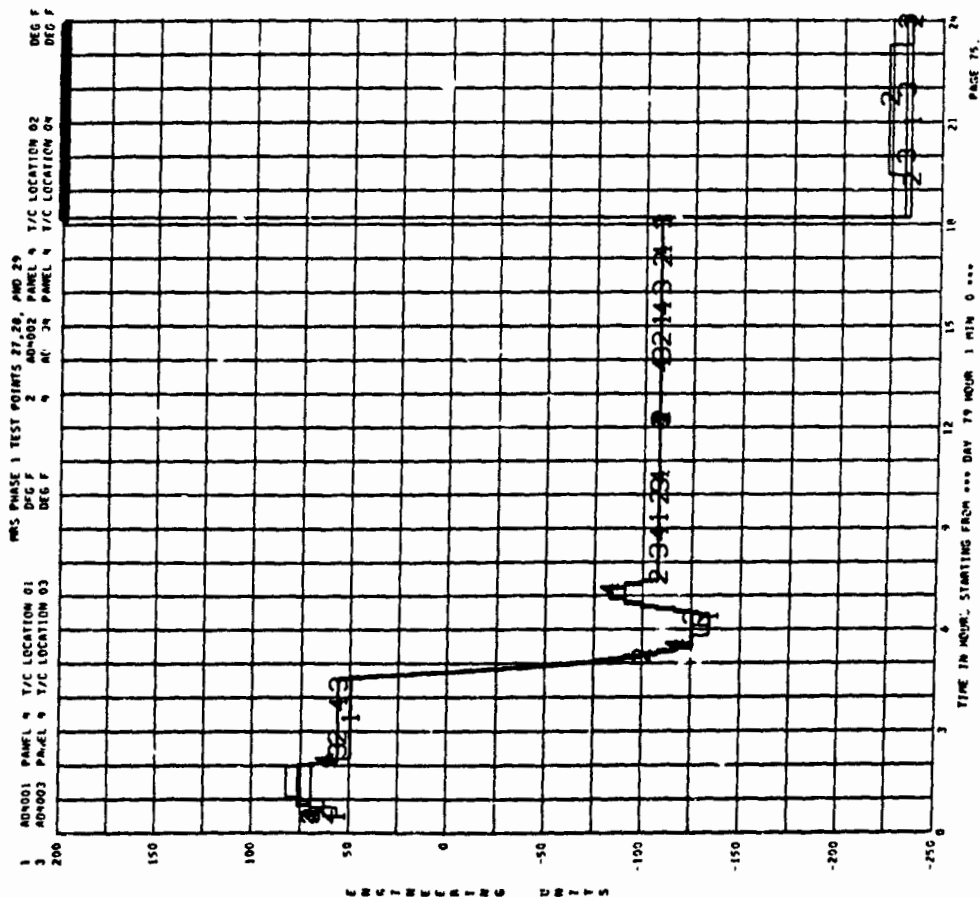


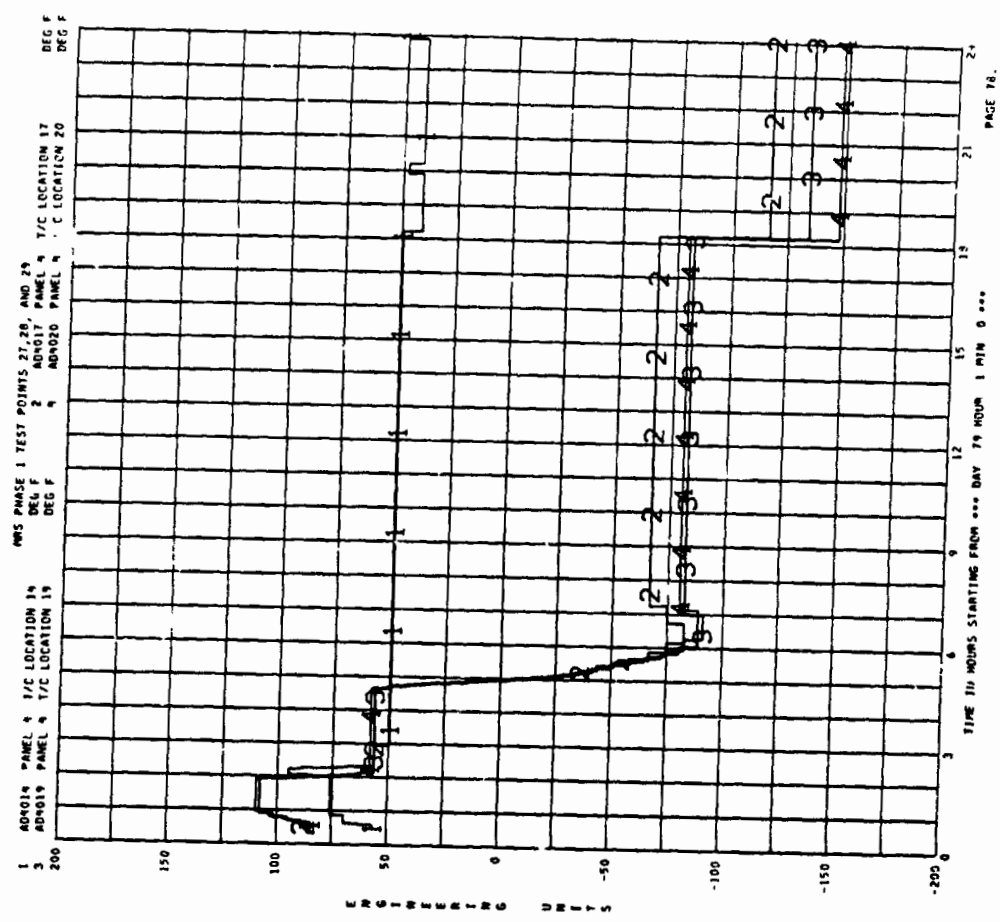
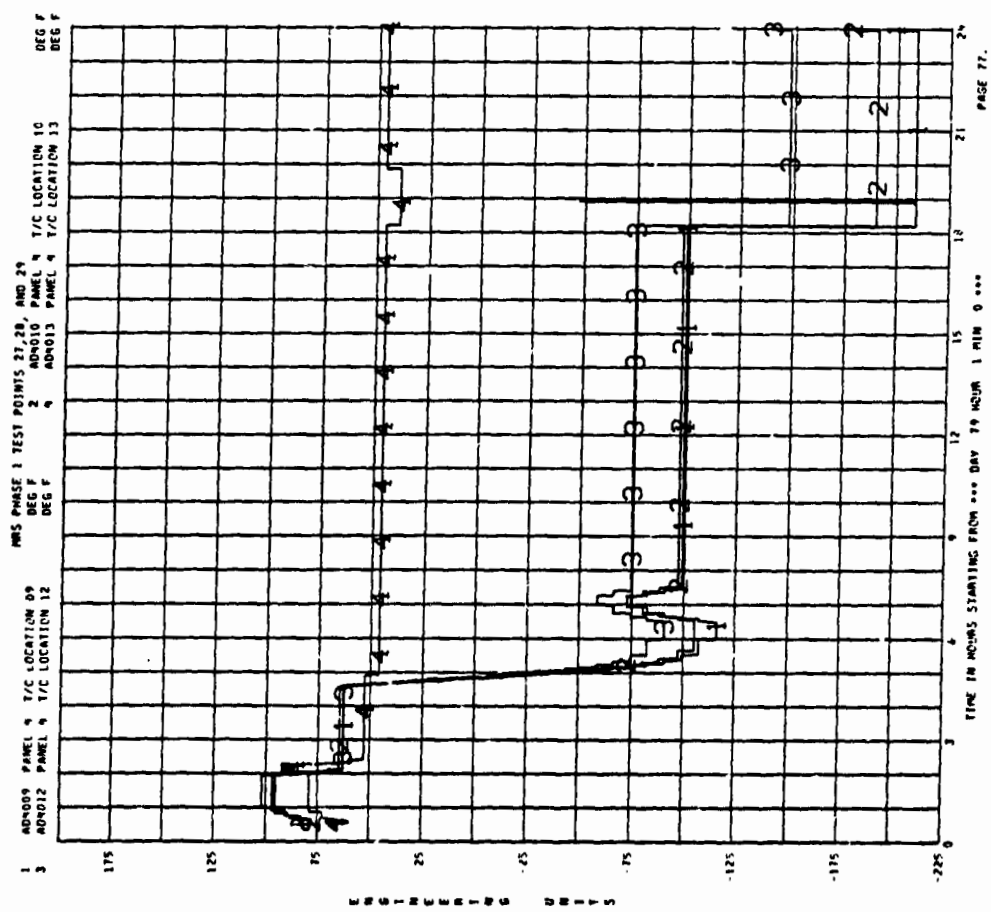


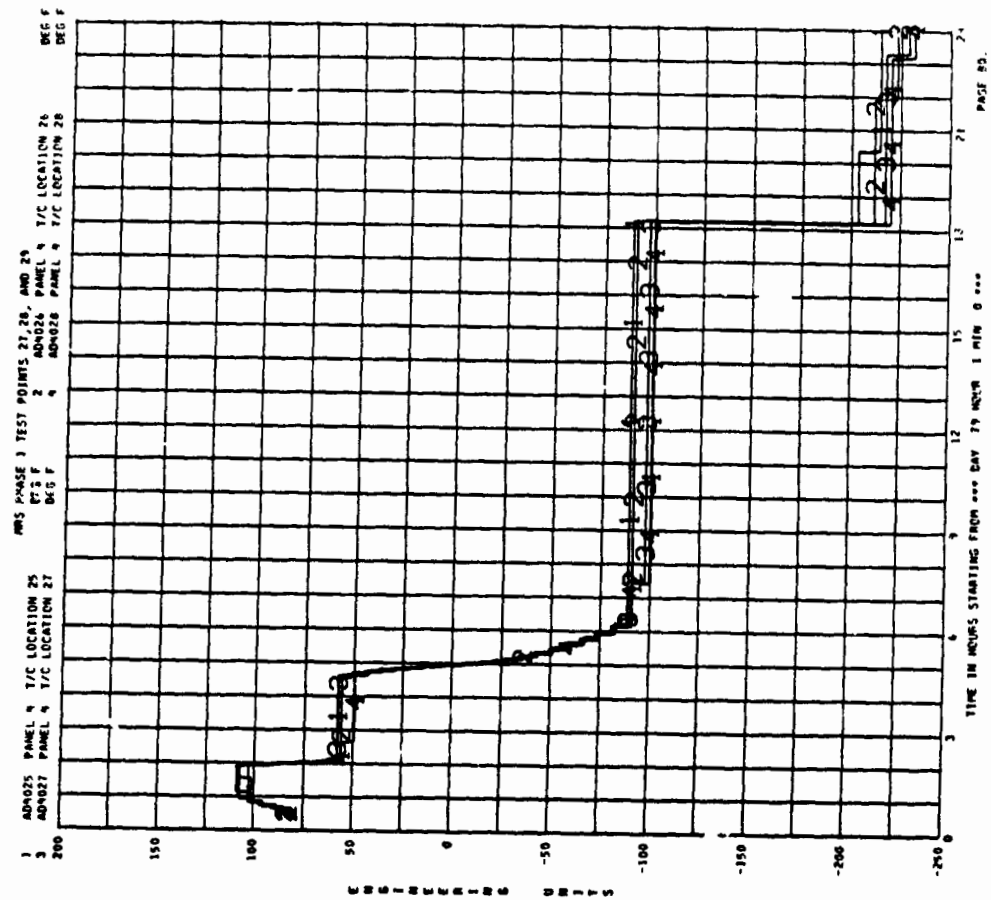
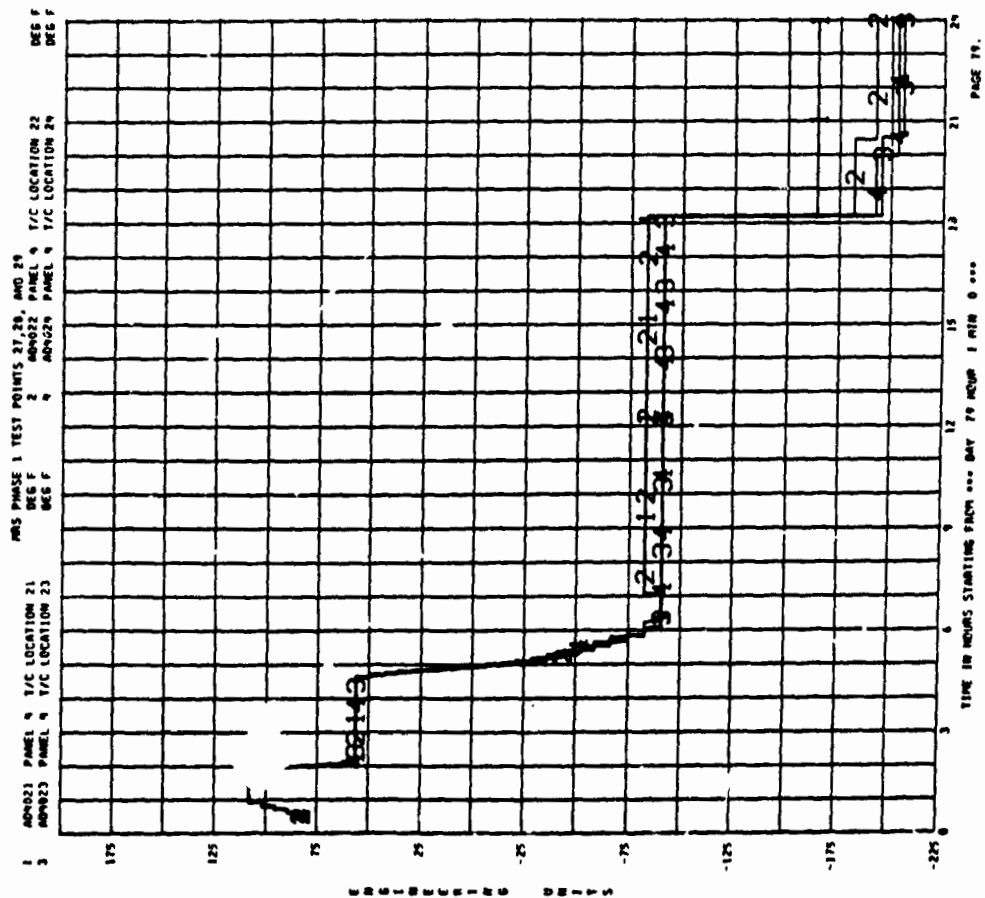


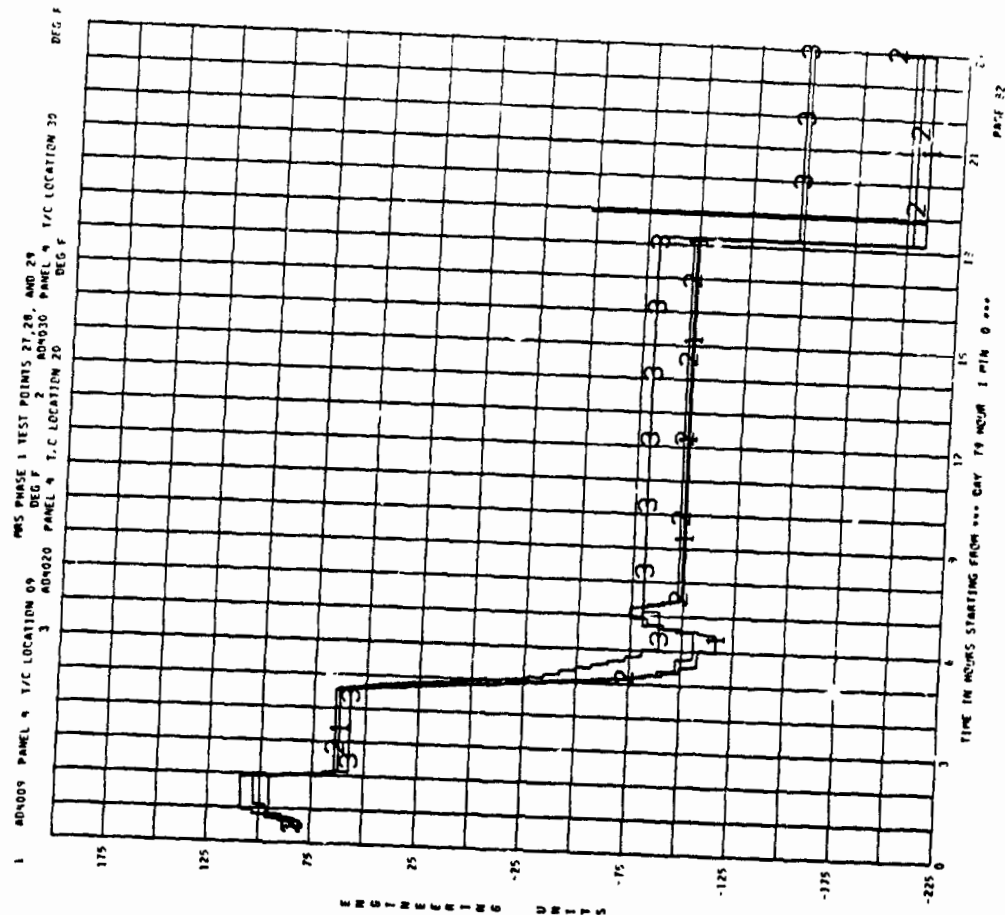
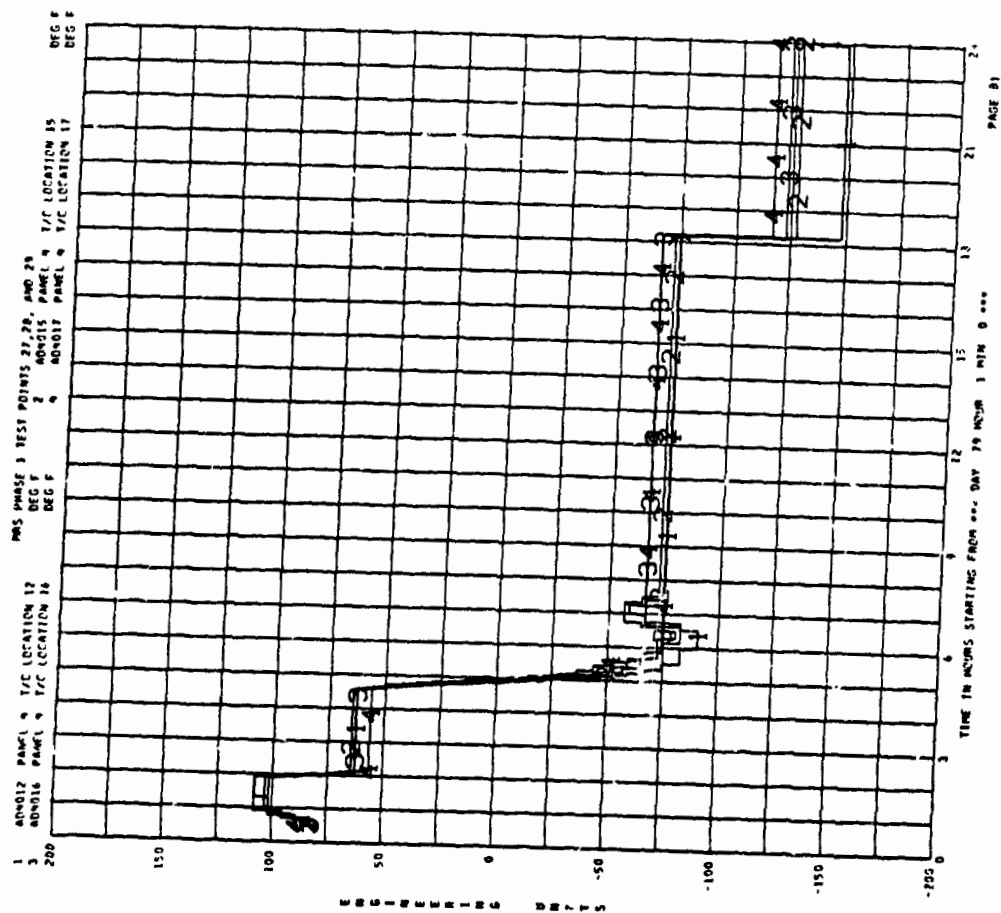


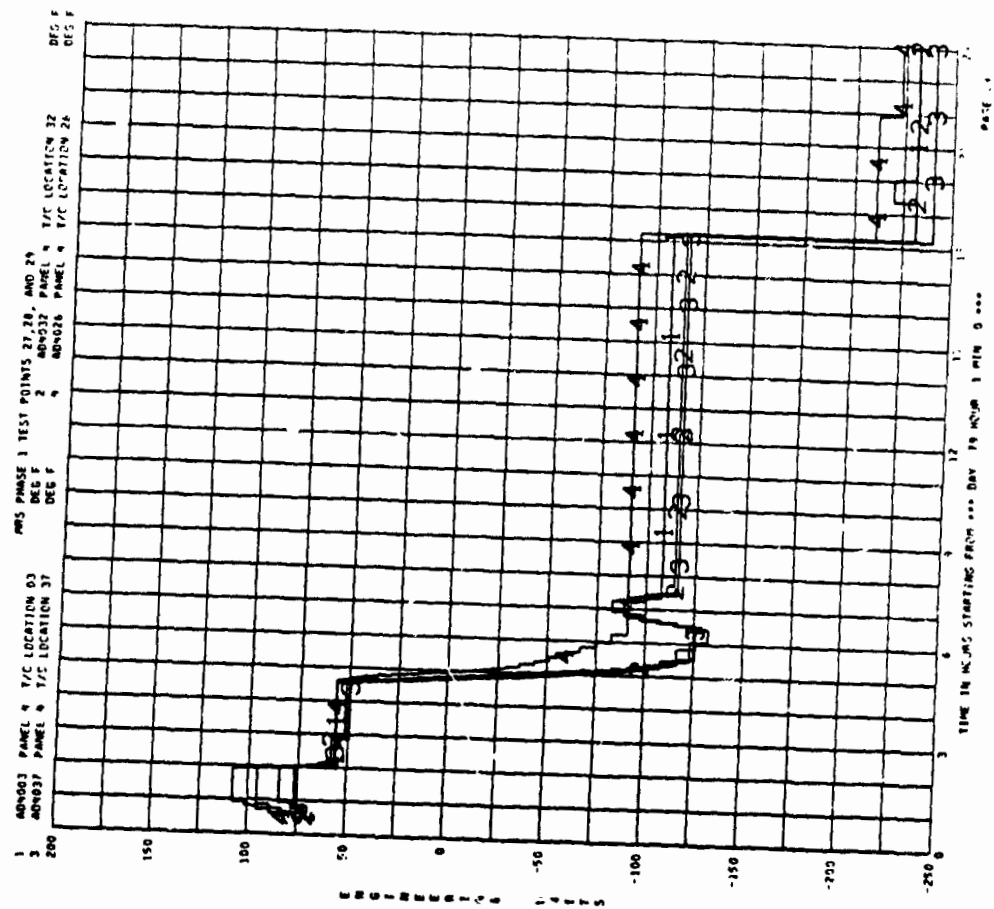
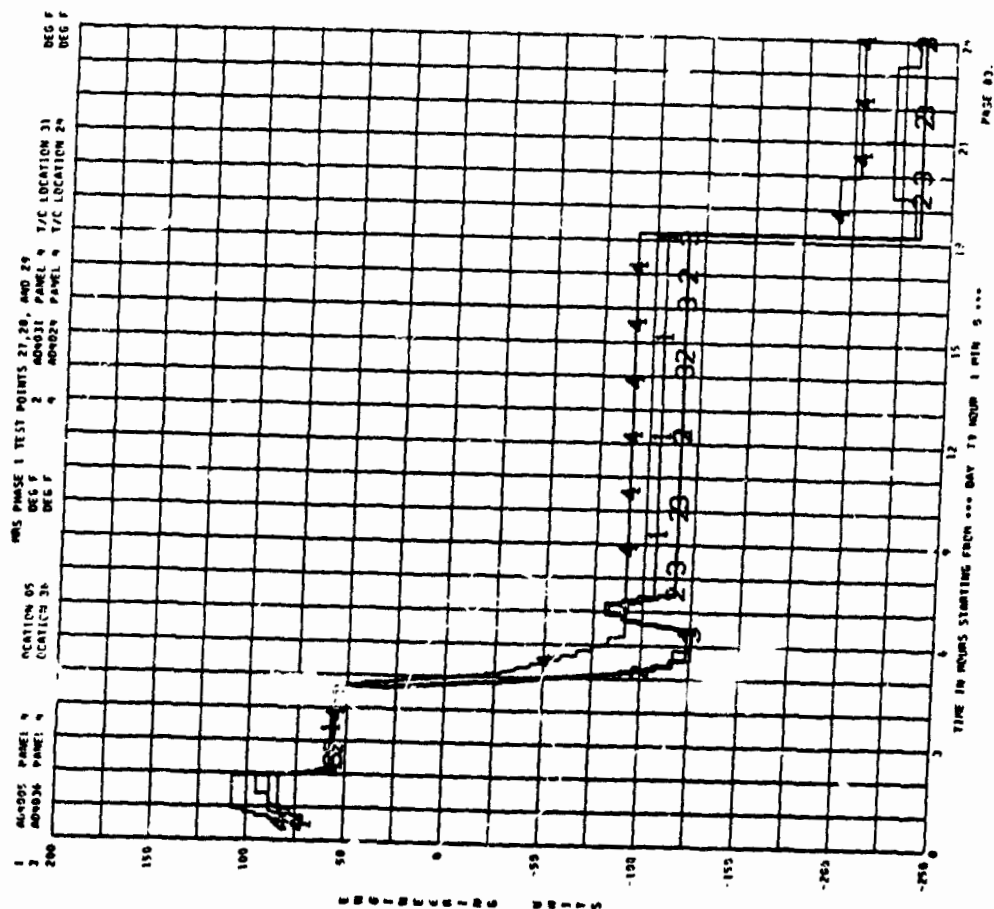


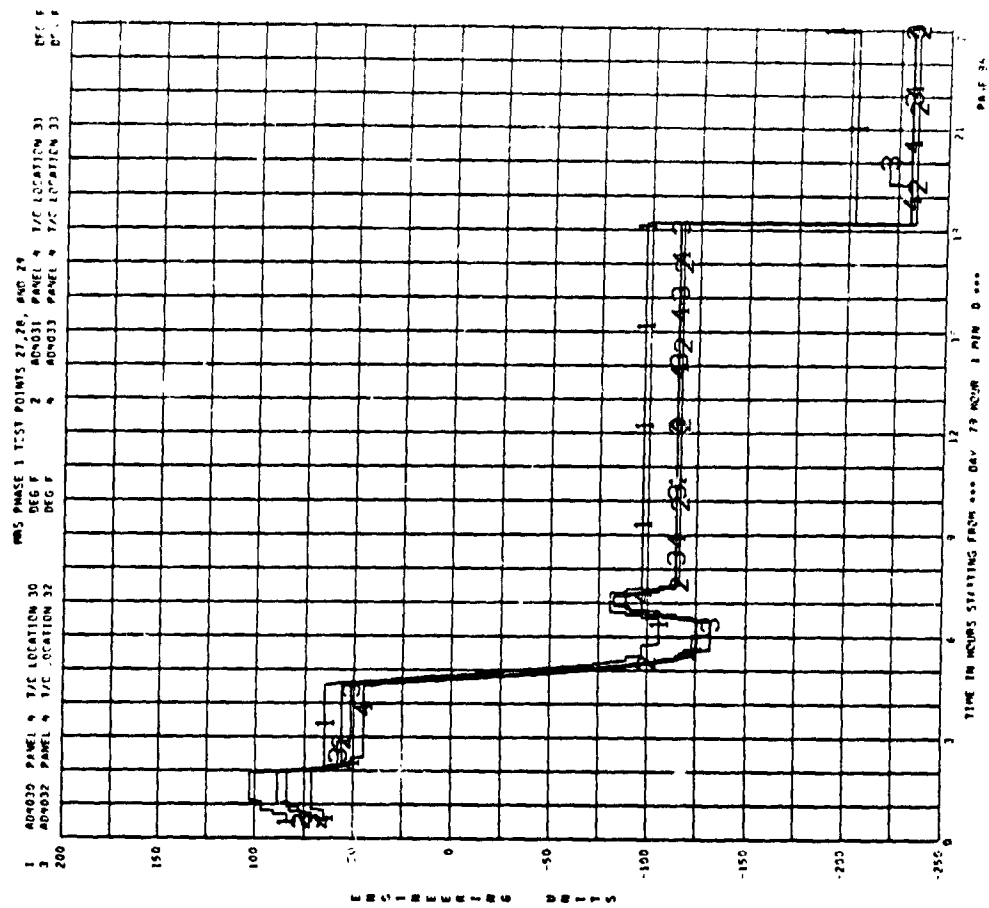
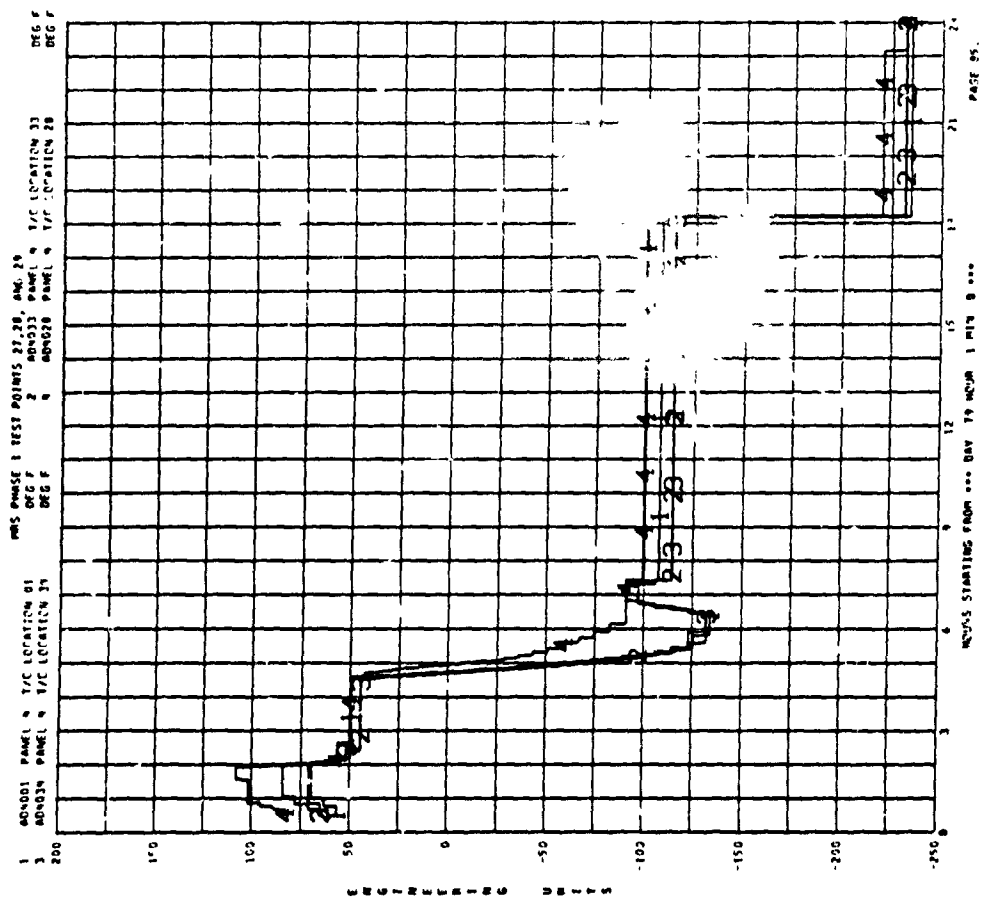






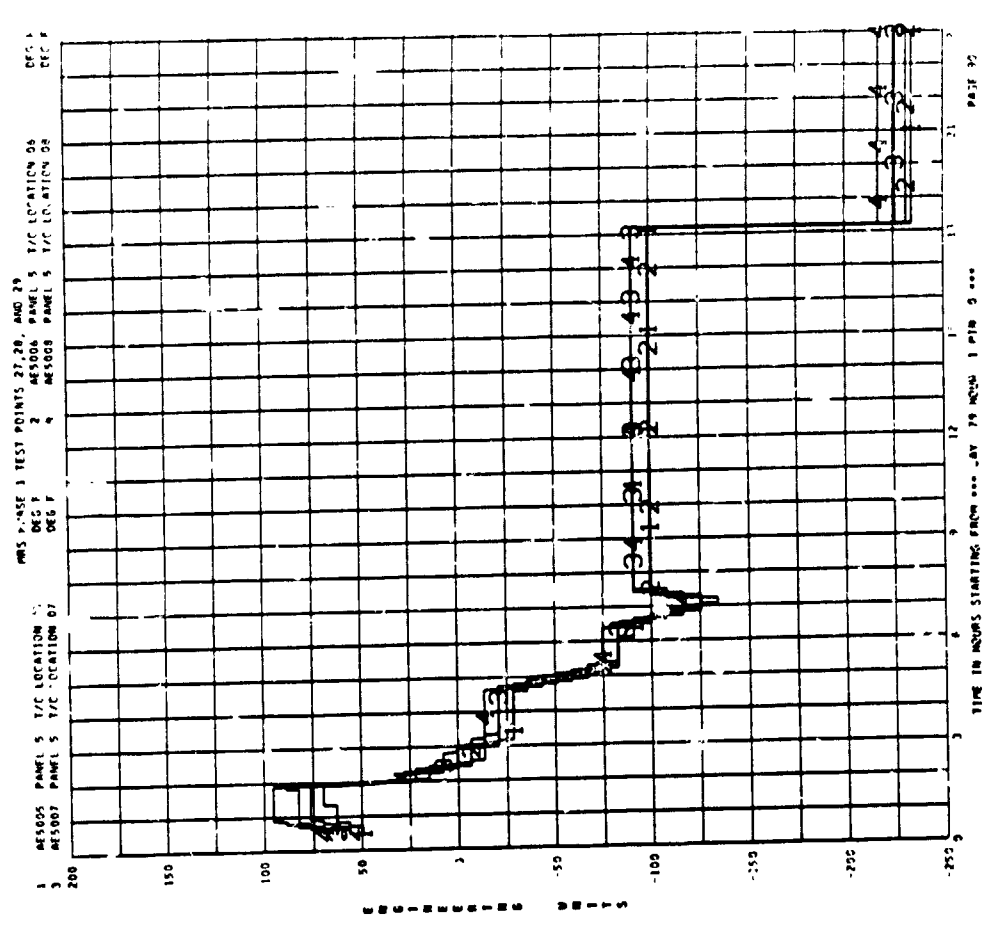
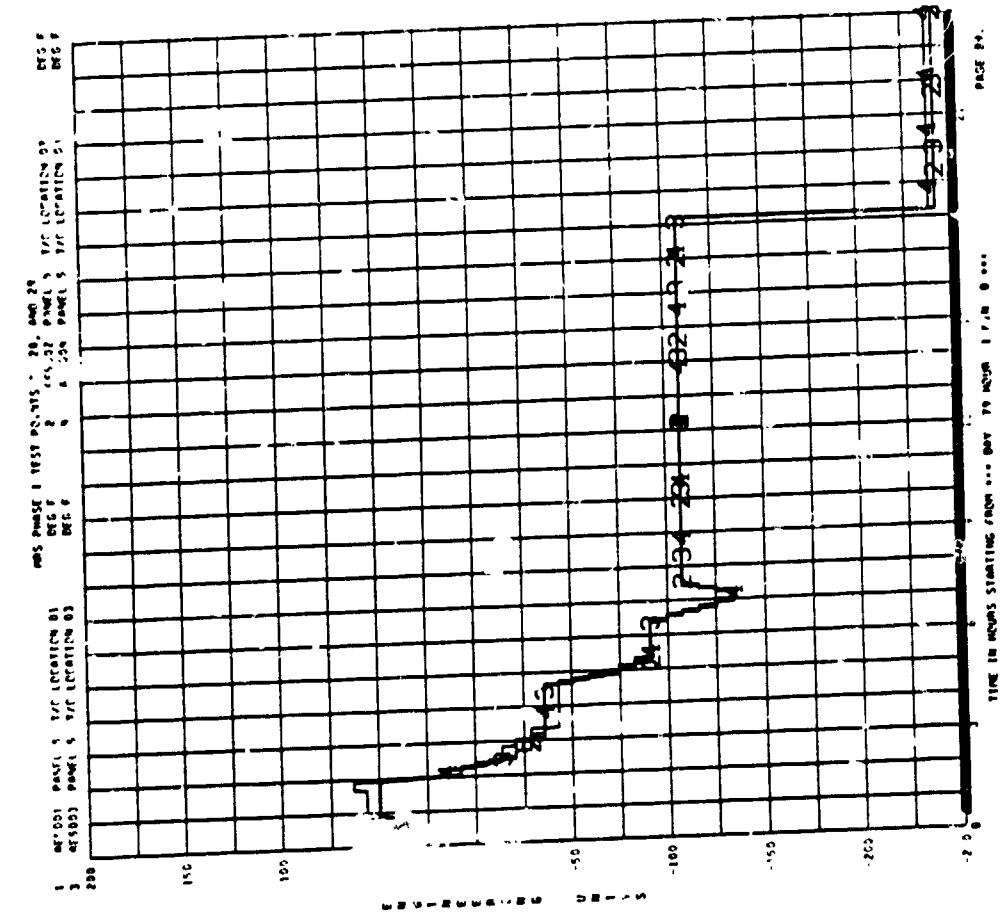


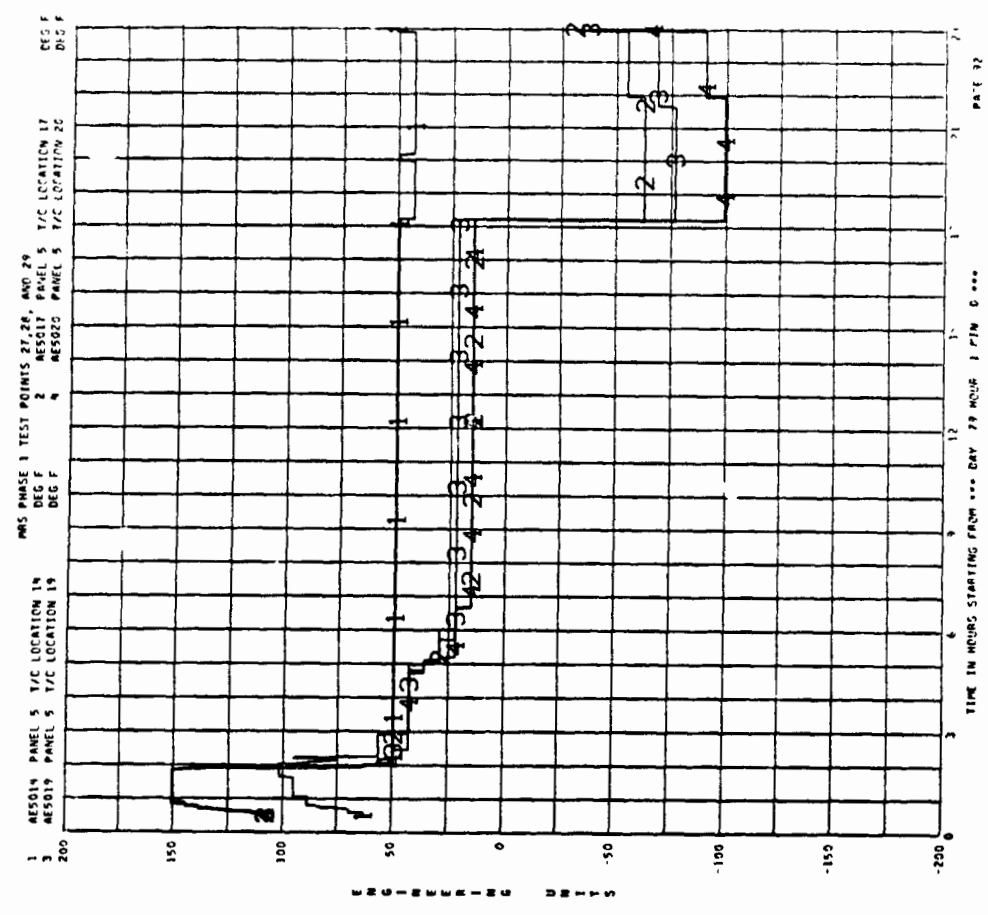
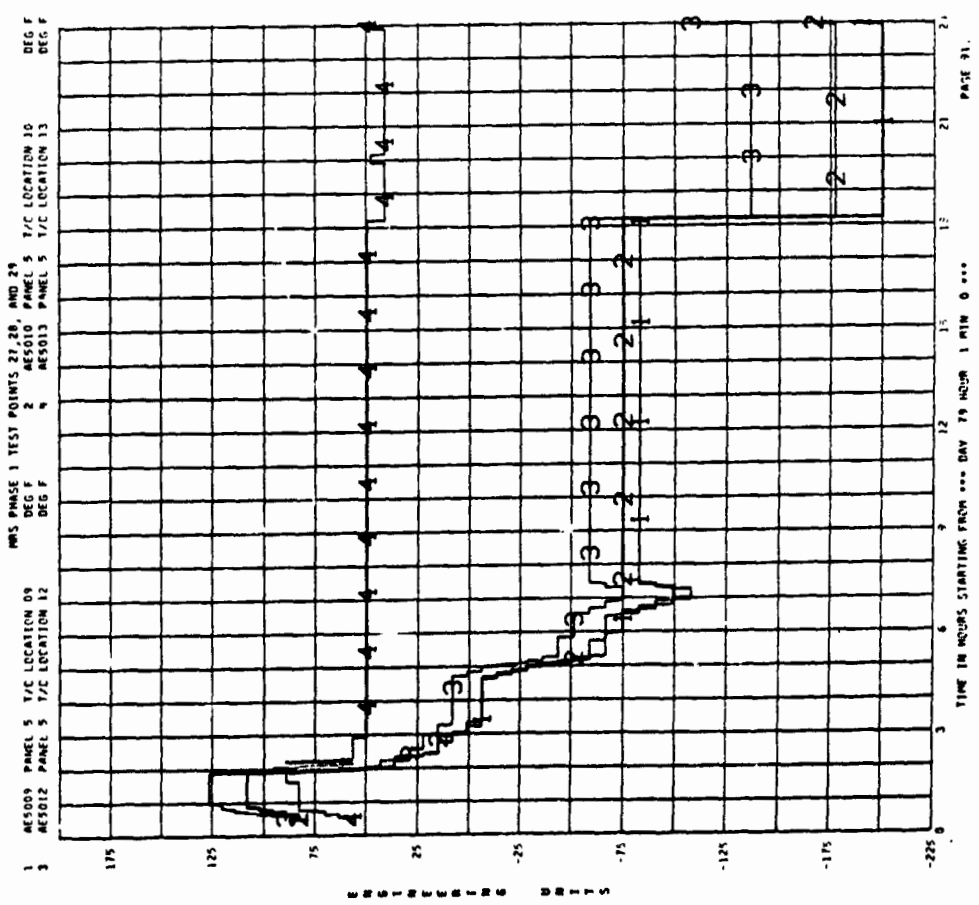


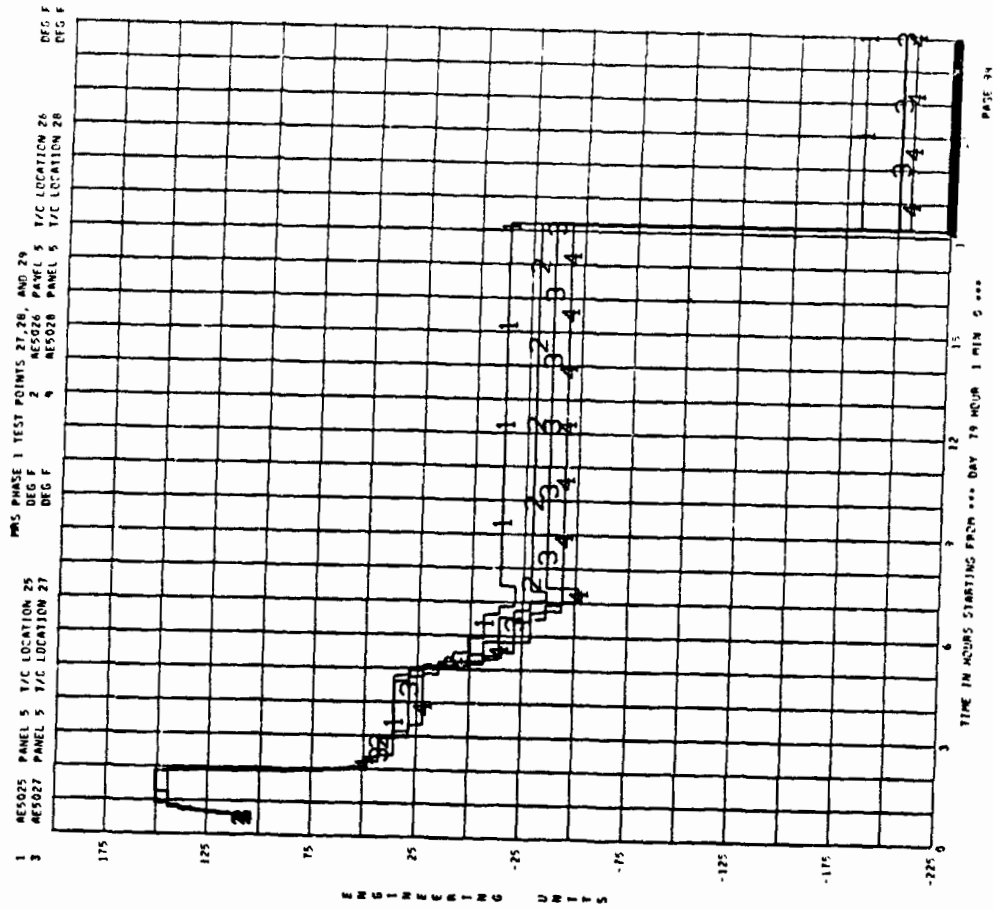
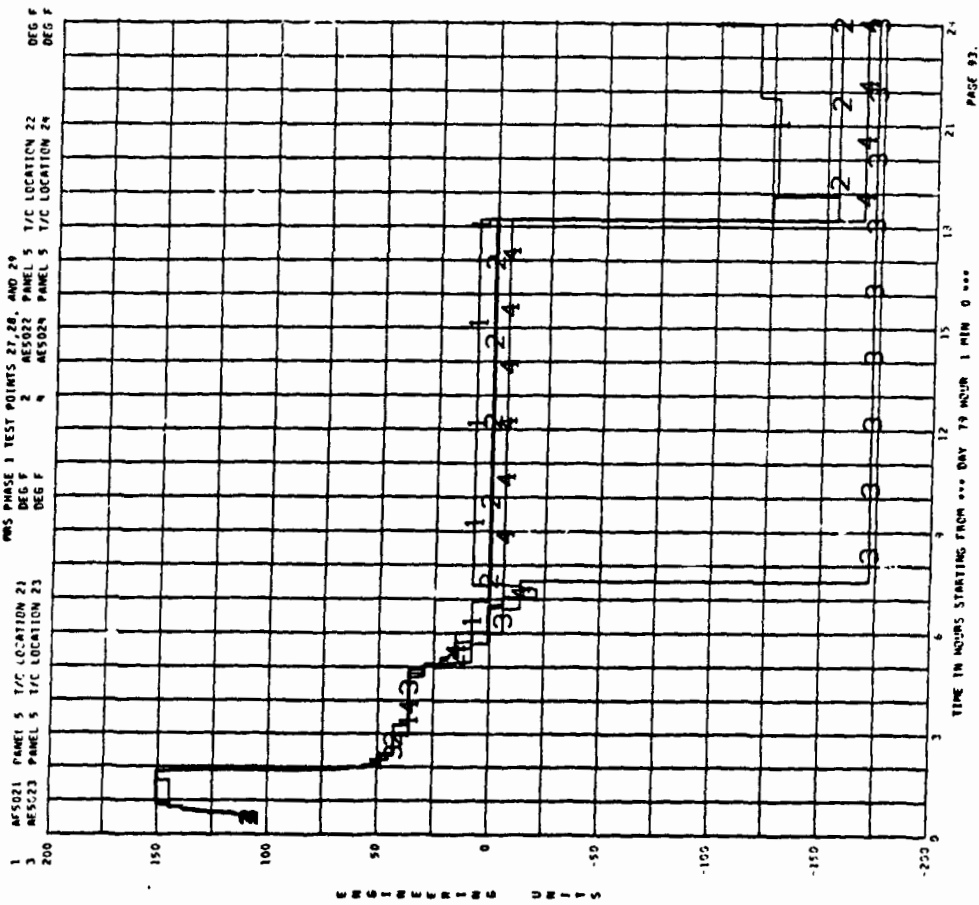


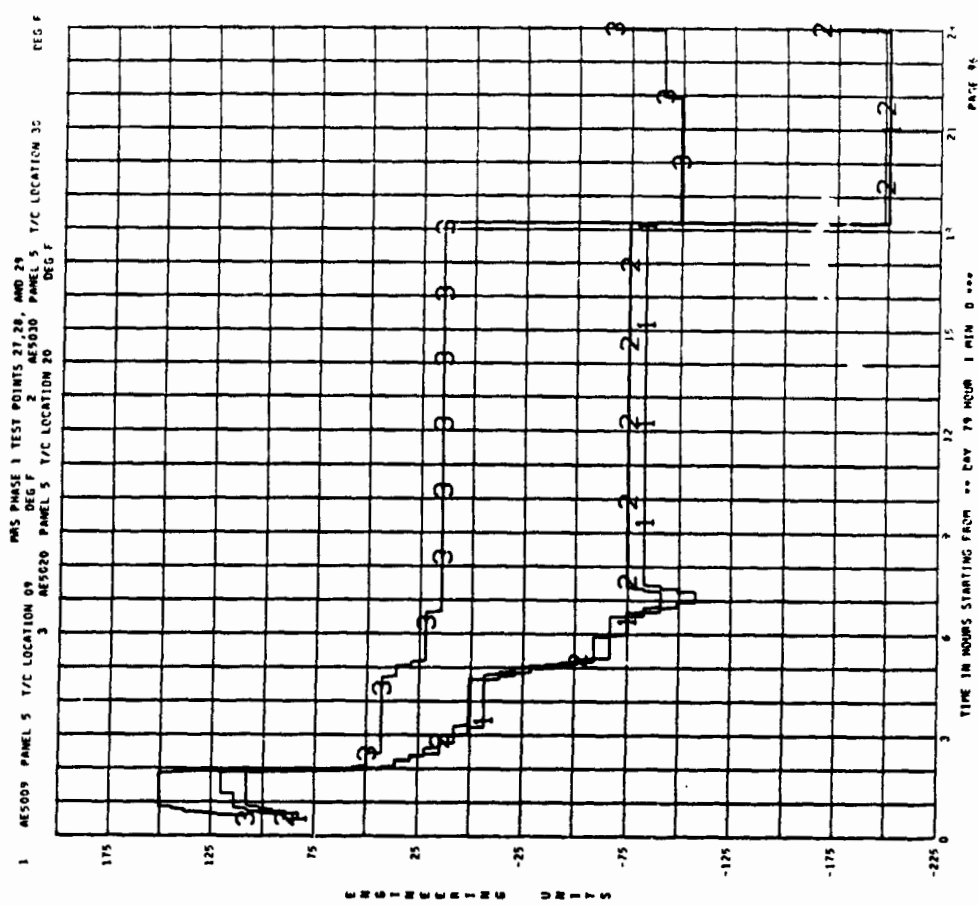
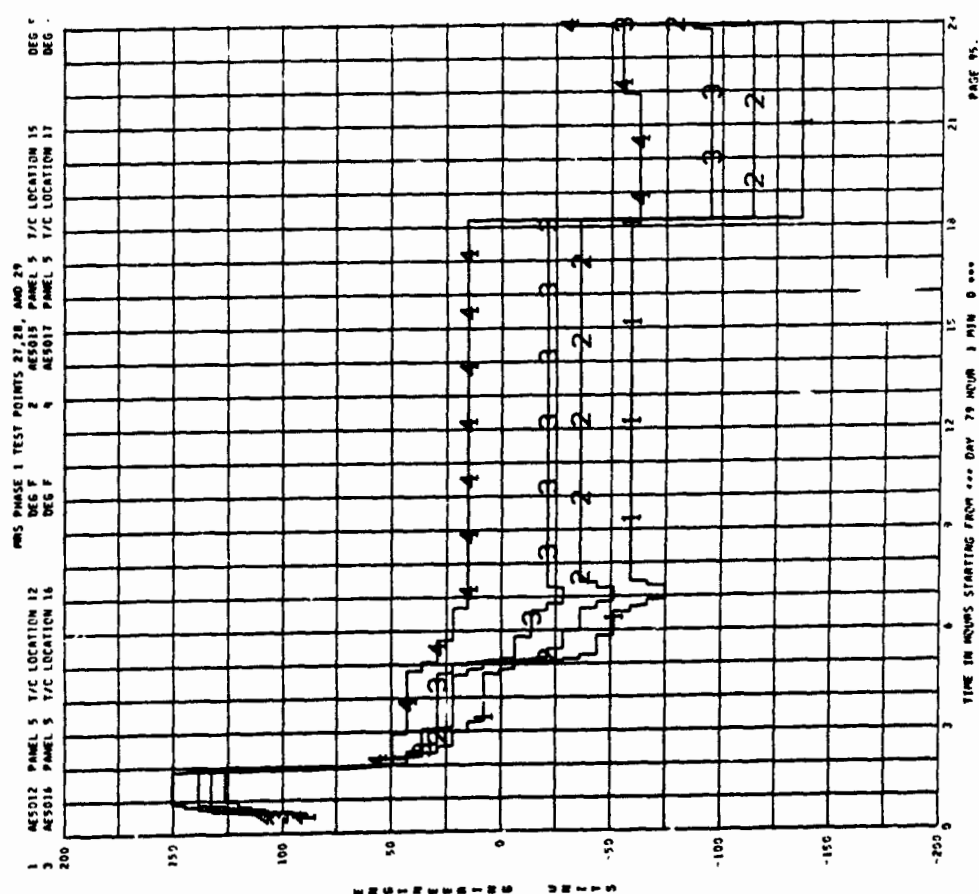


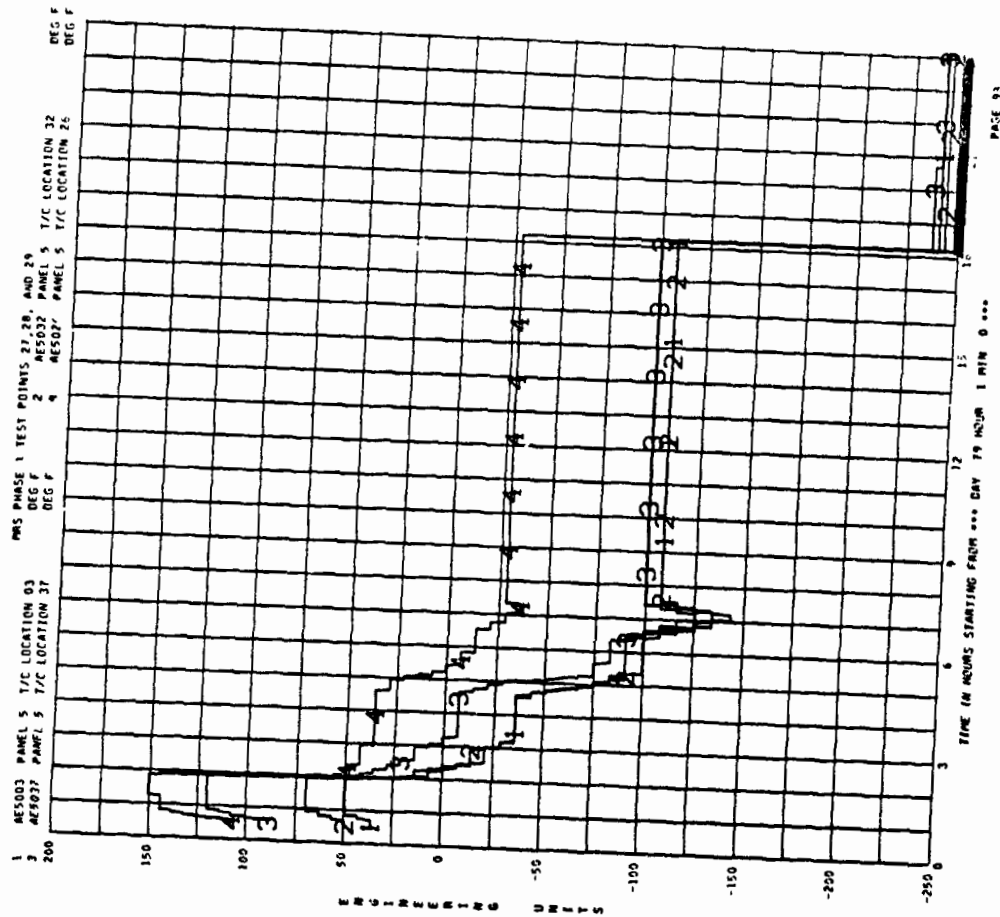
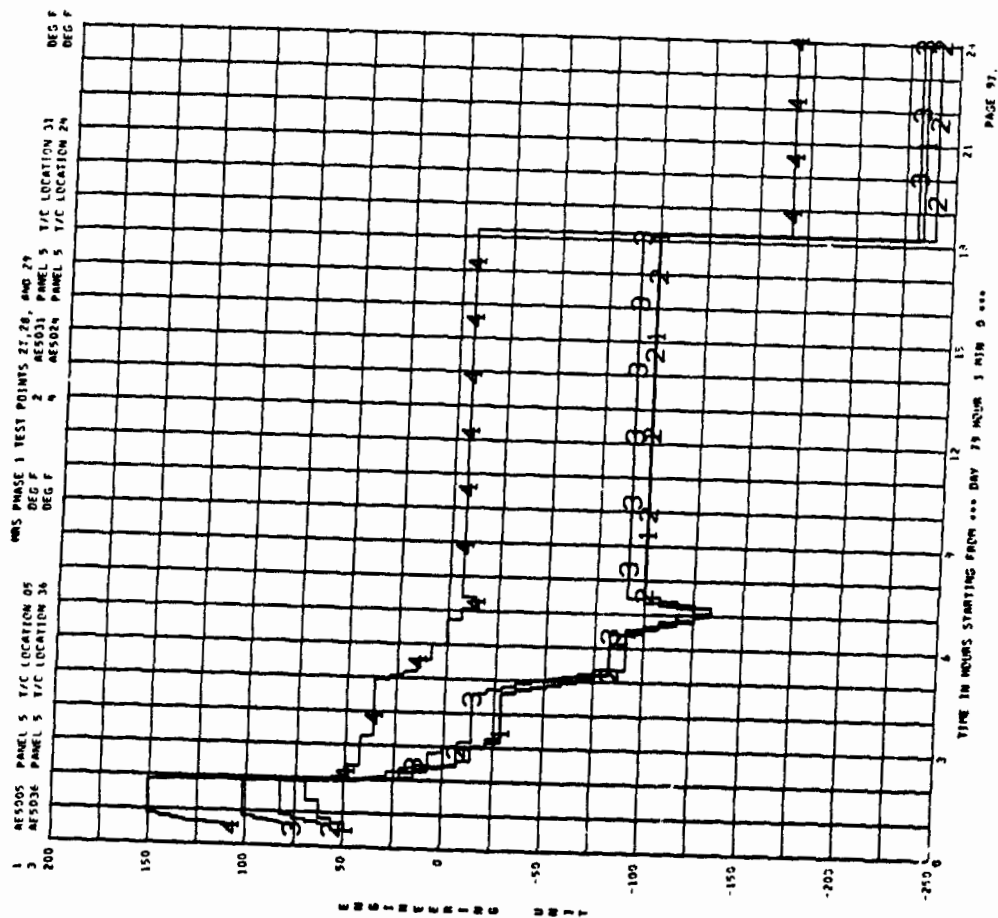


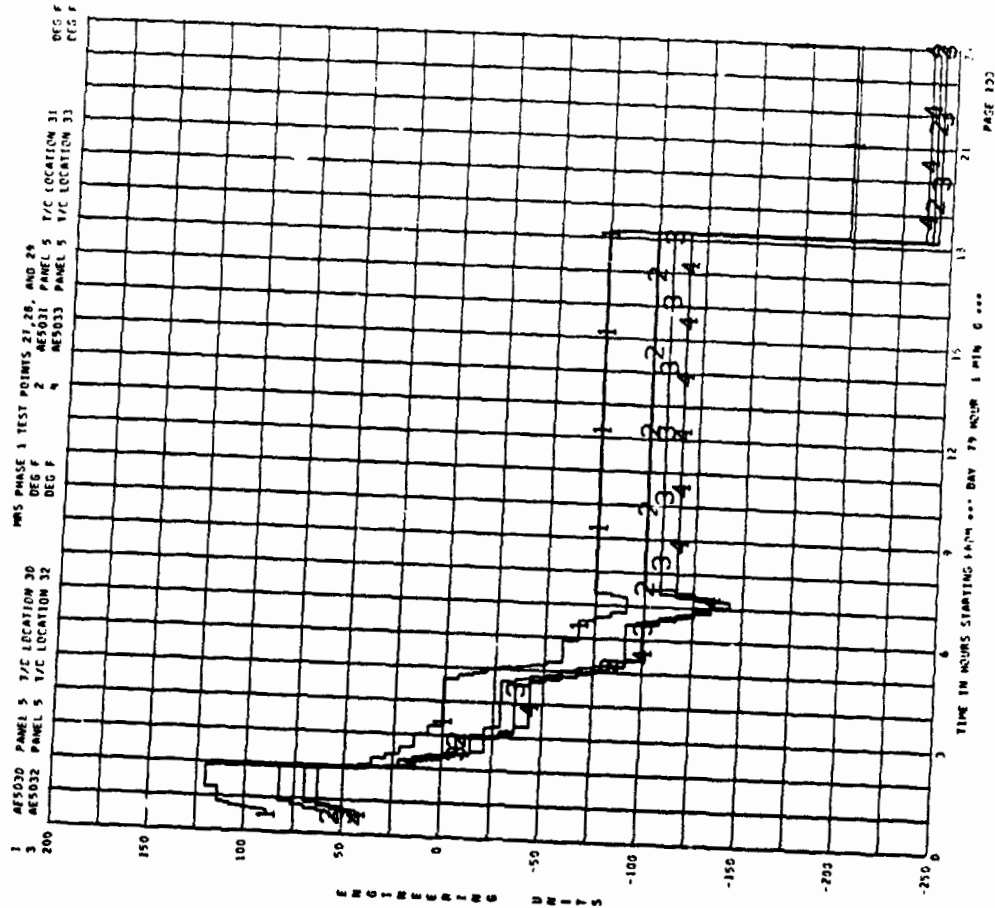
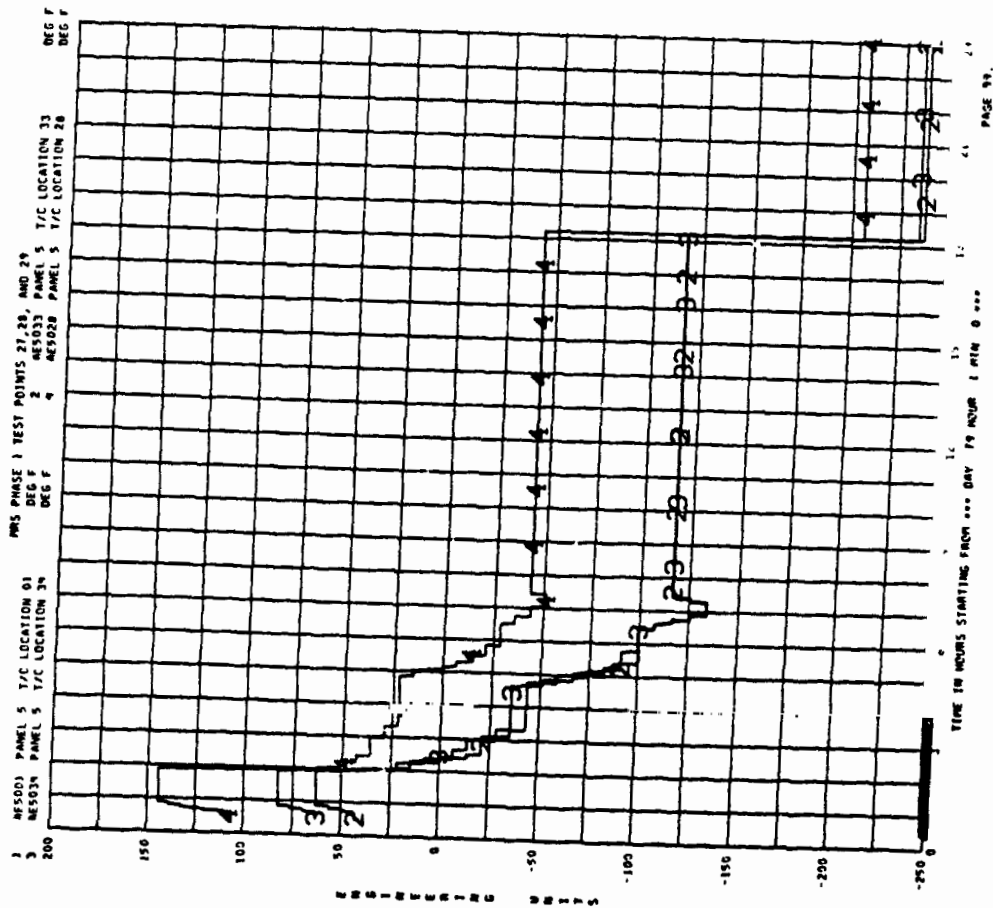






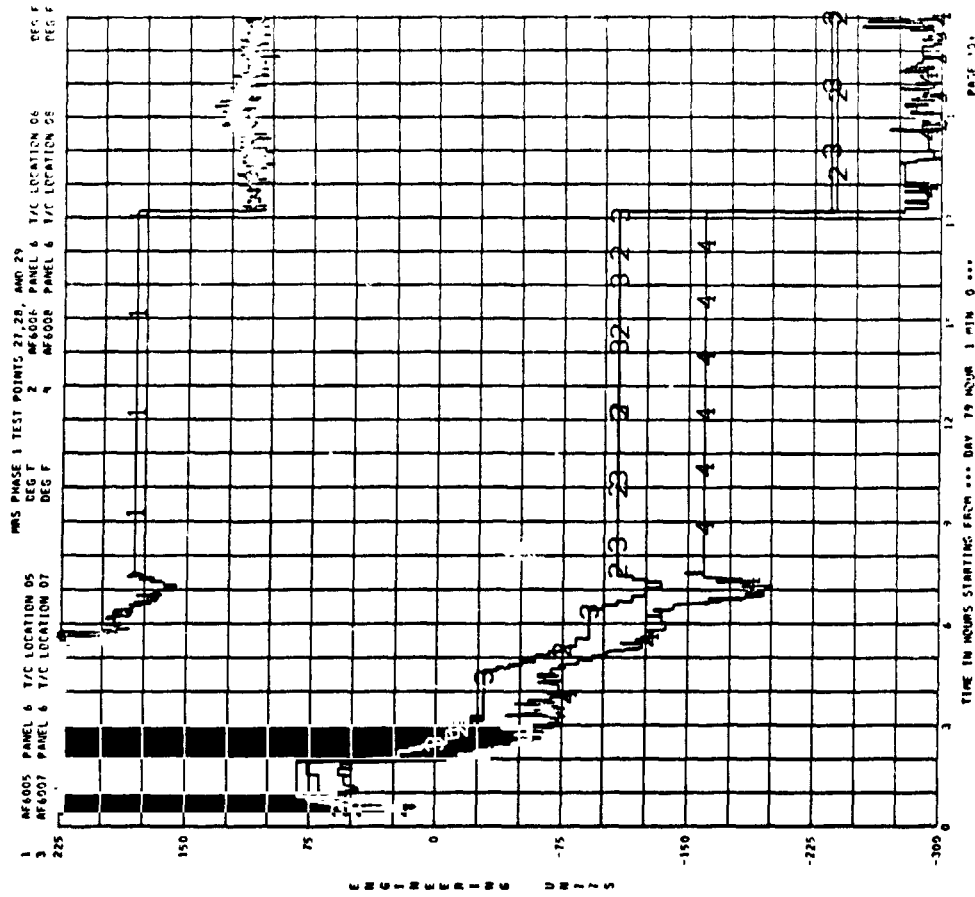
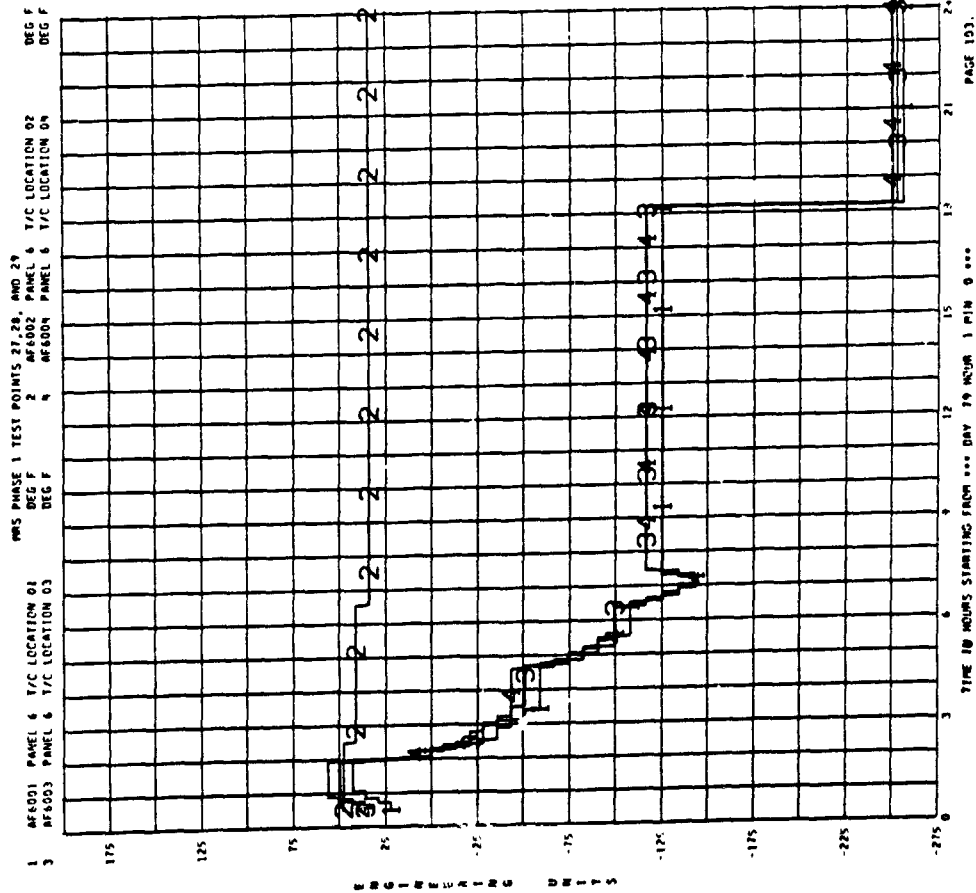


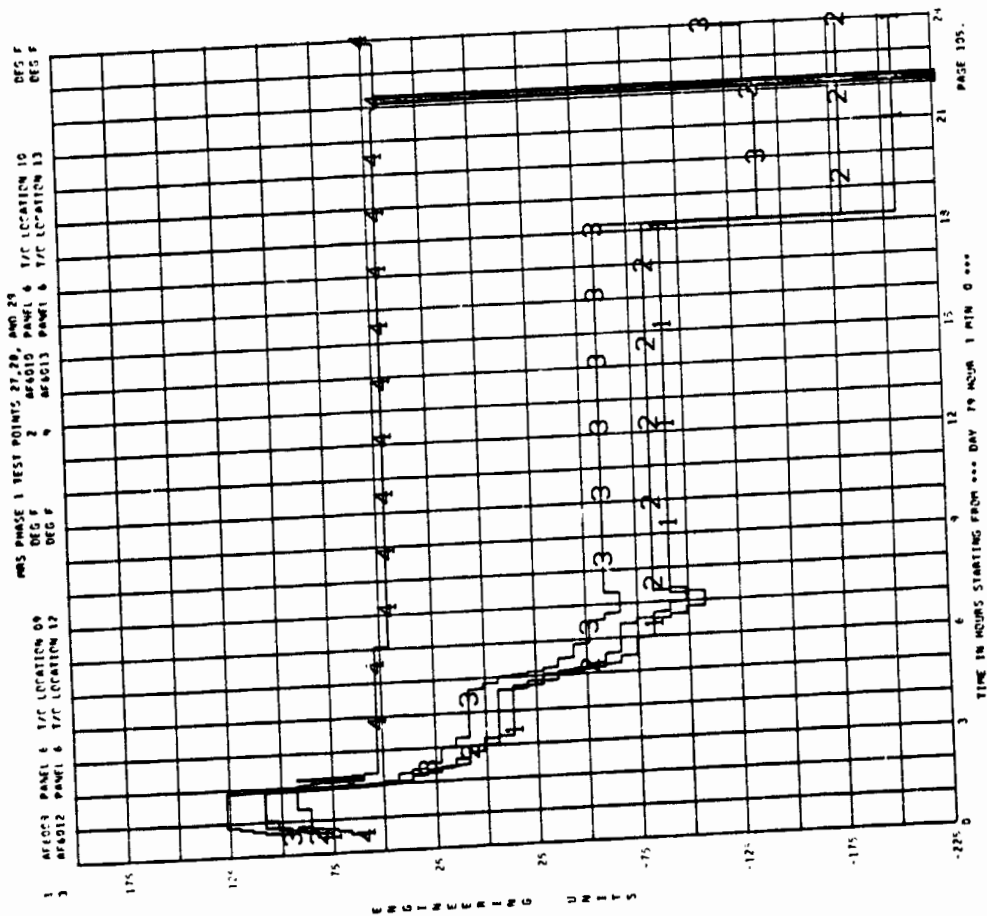
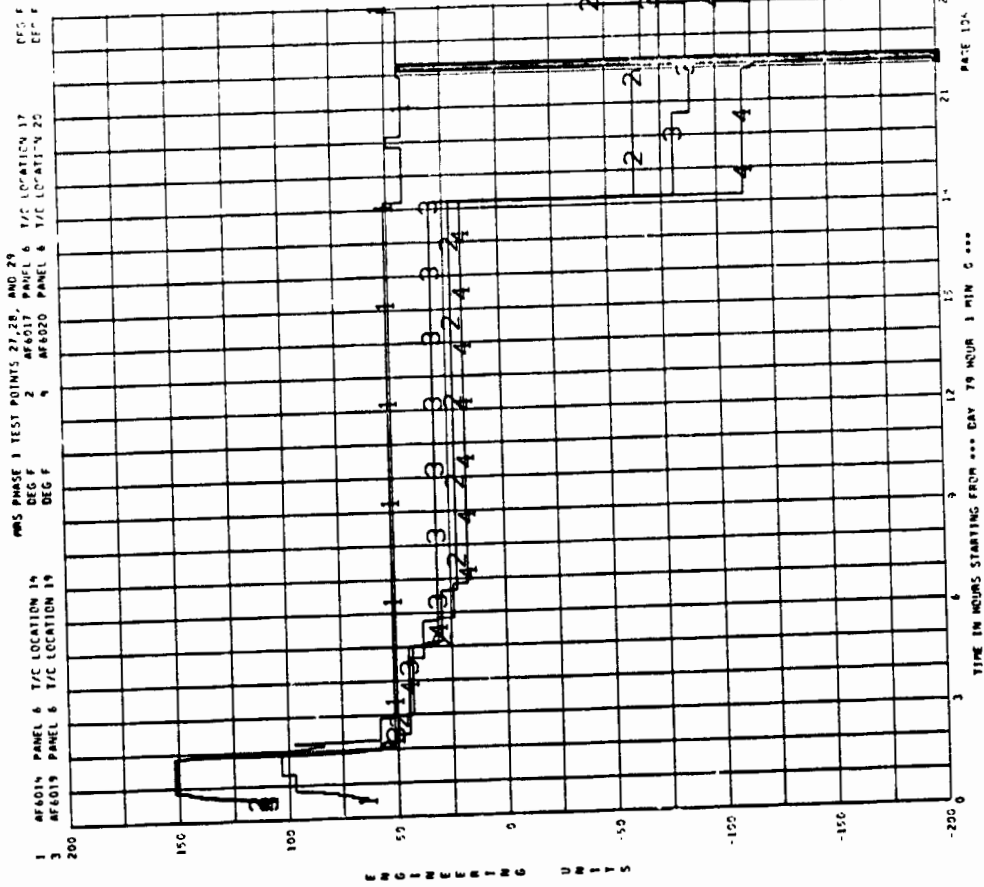


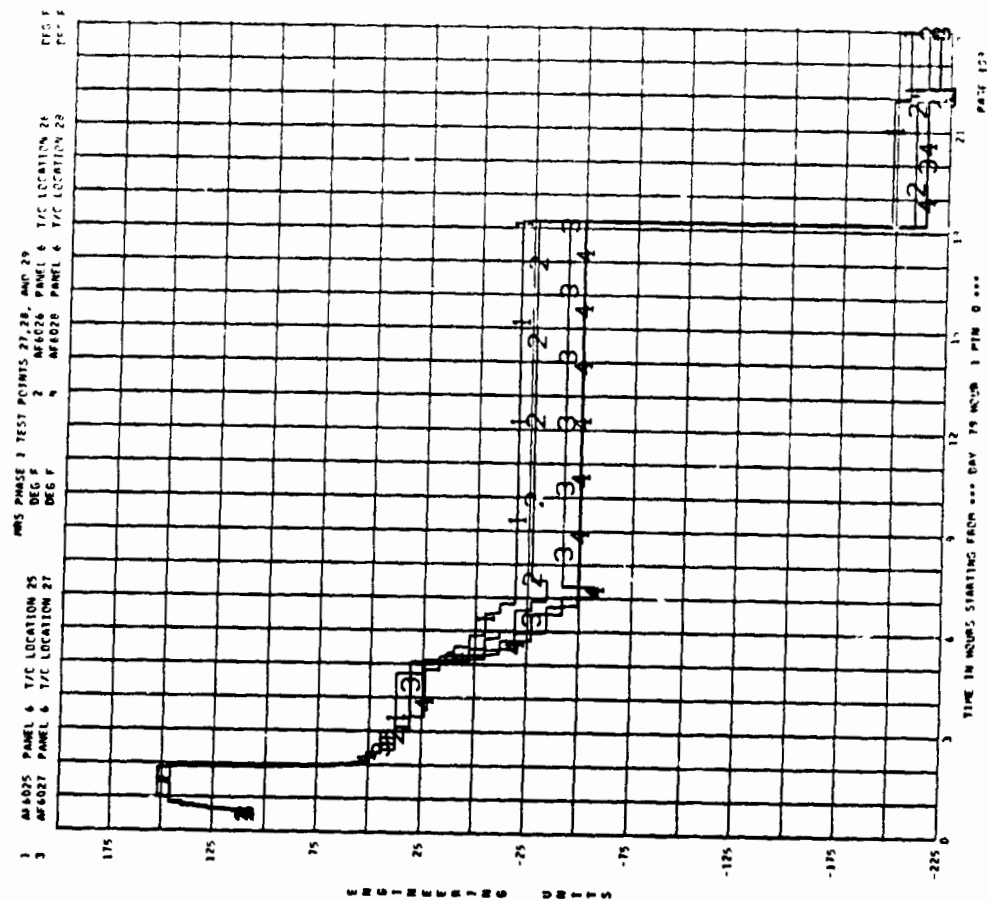
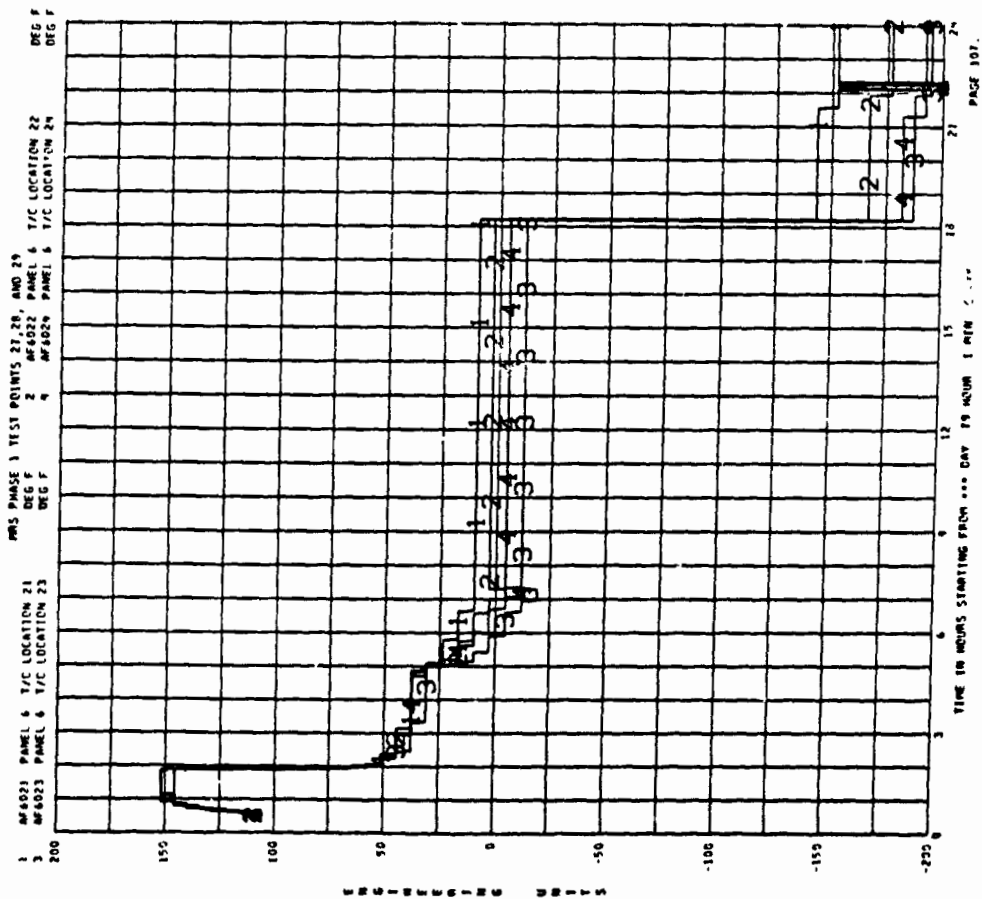




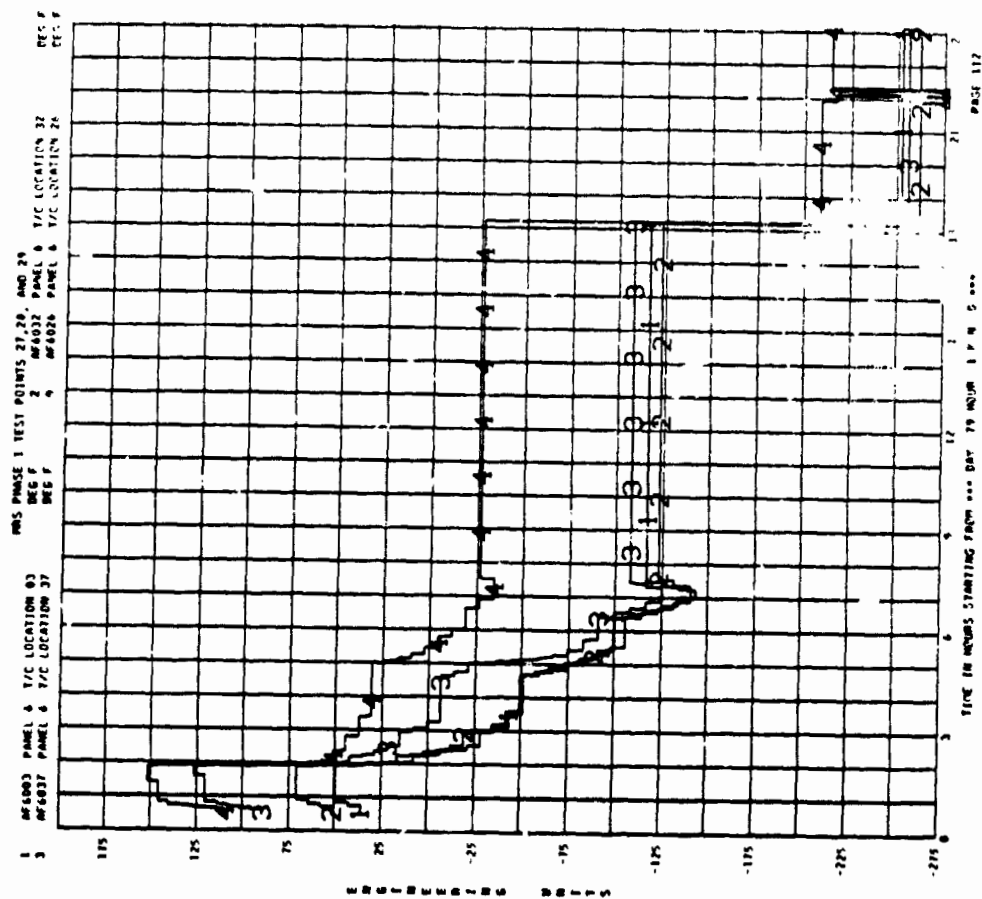
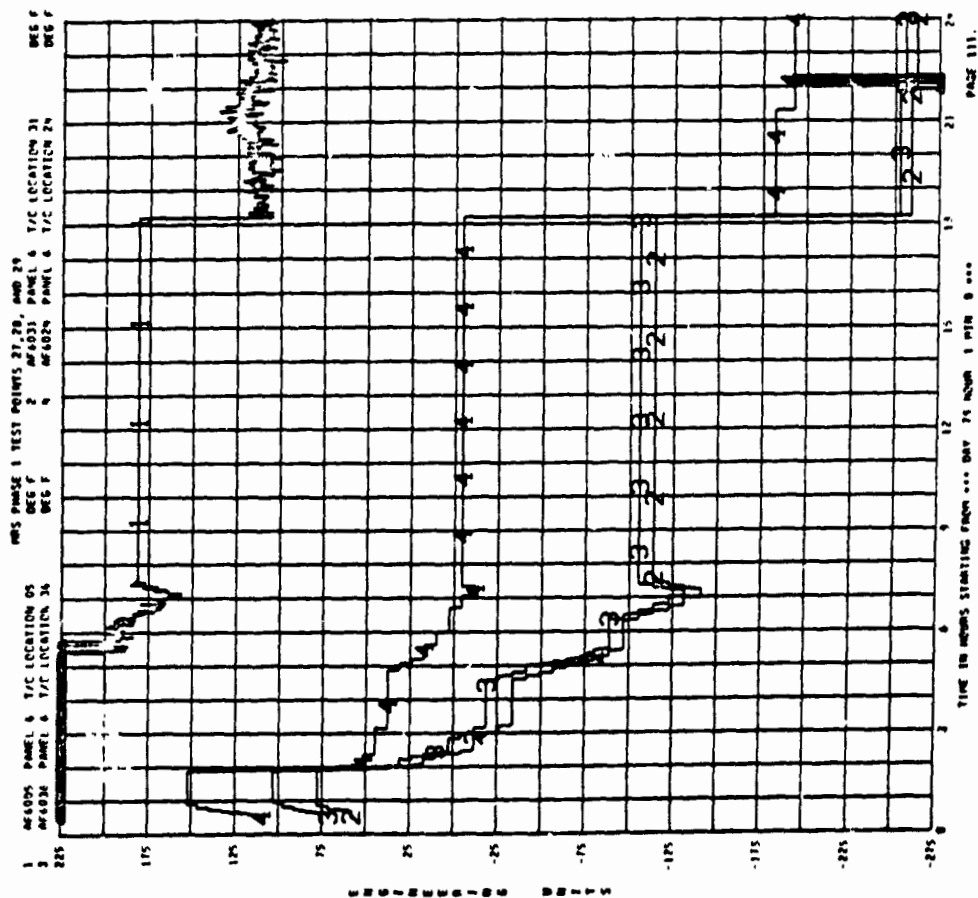


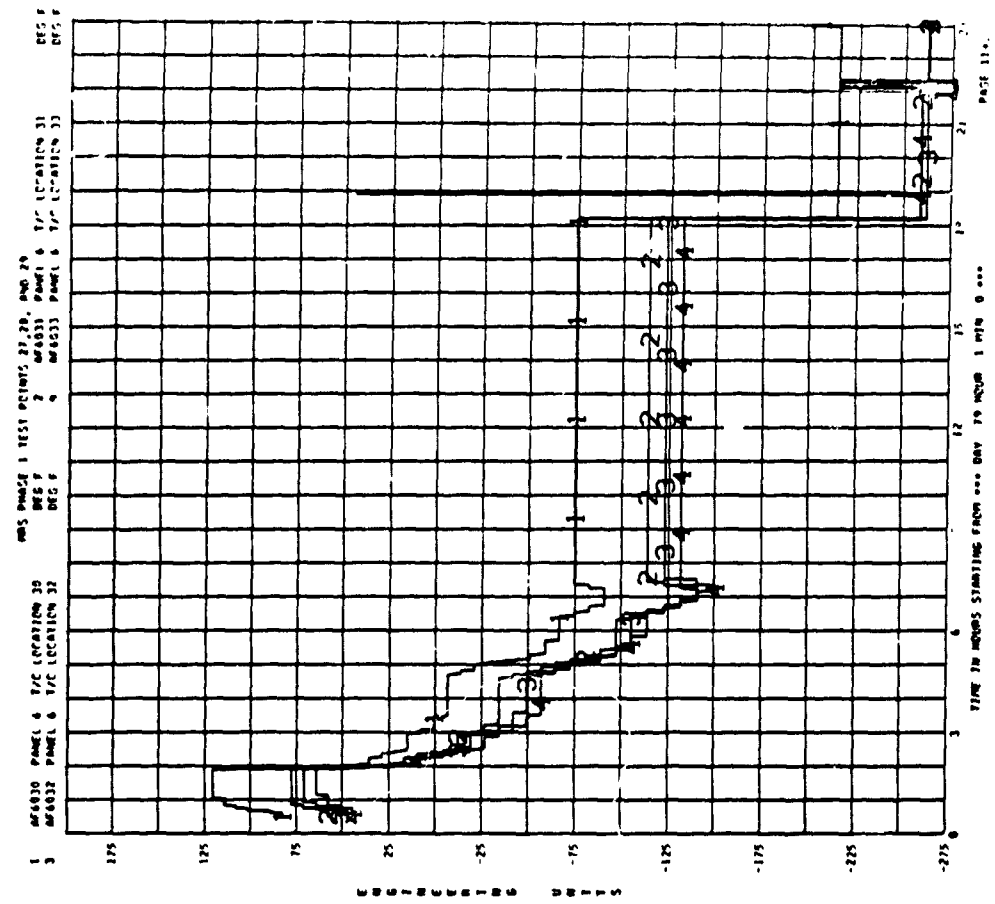
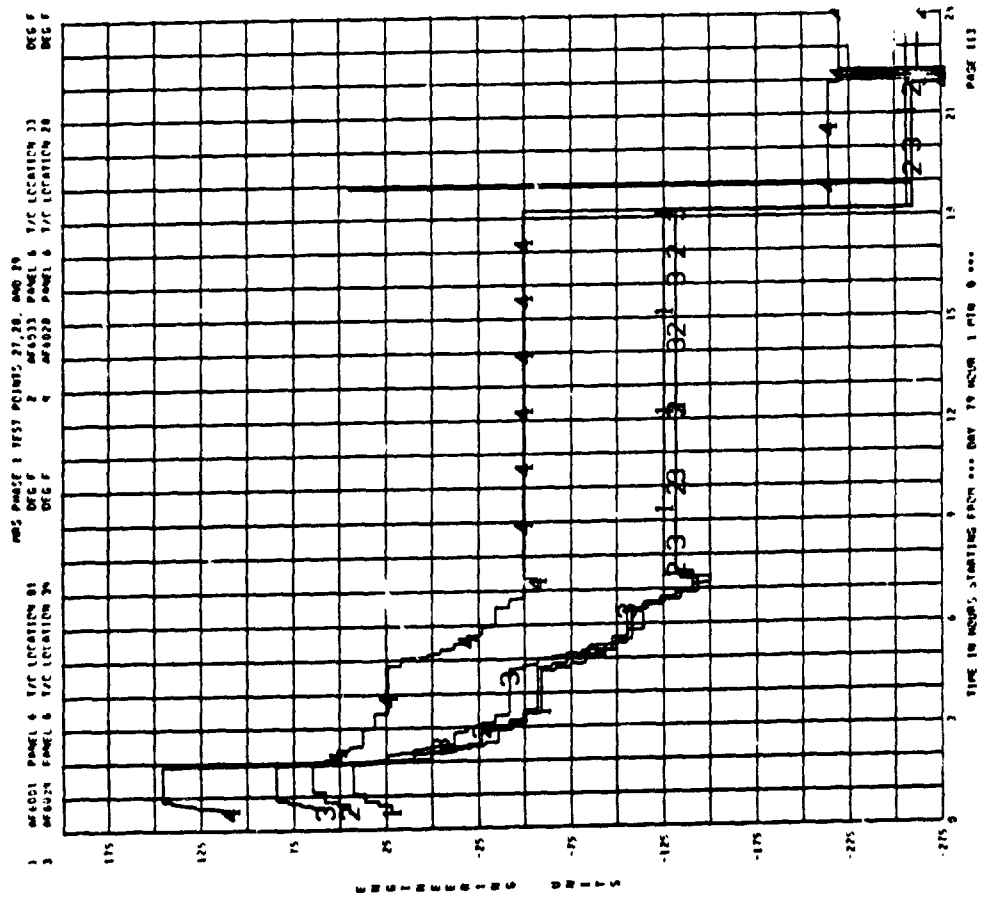








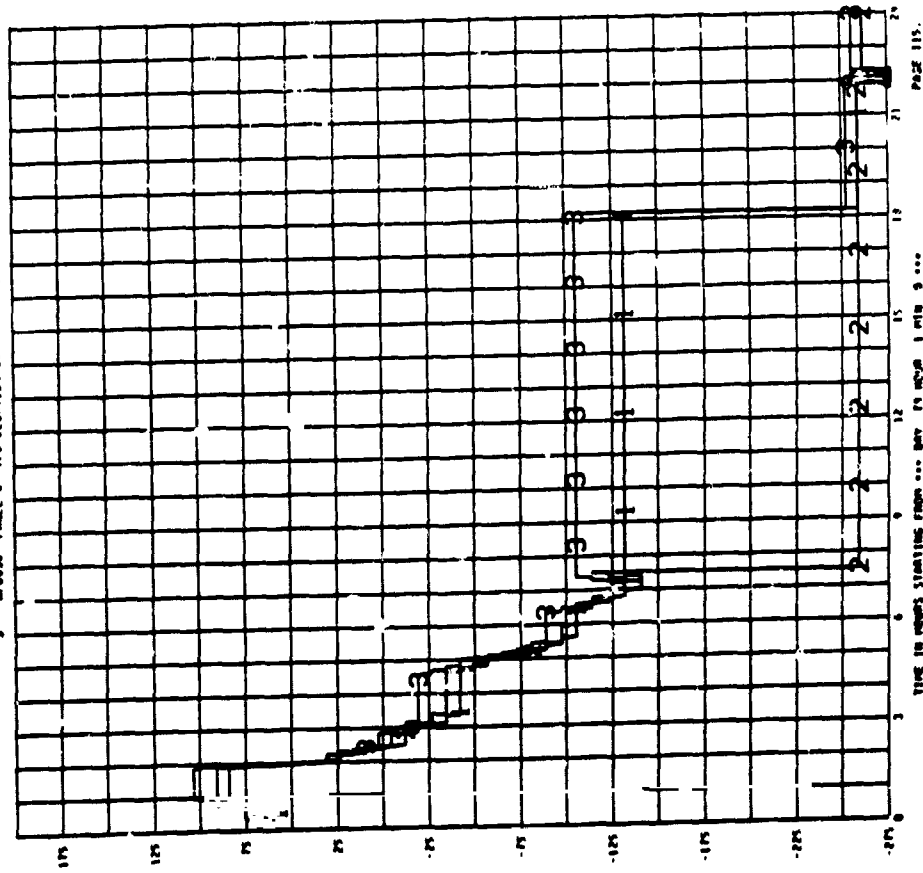




1 AF6034 PANEL 6 T/C LOCATION 34  
 2 AF6035 PANEL 6 T/C LOCATION 35  
 3 AF6036 PANEL 6 T/C LOCATION 36

MS PHASE 1 TEST POINTS 27, 28, AND 29

REF F

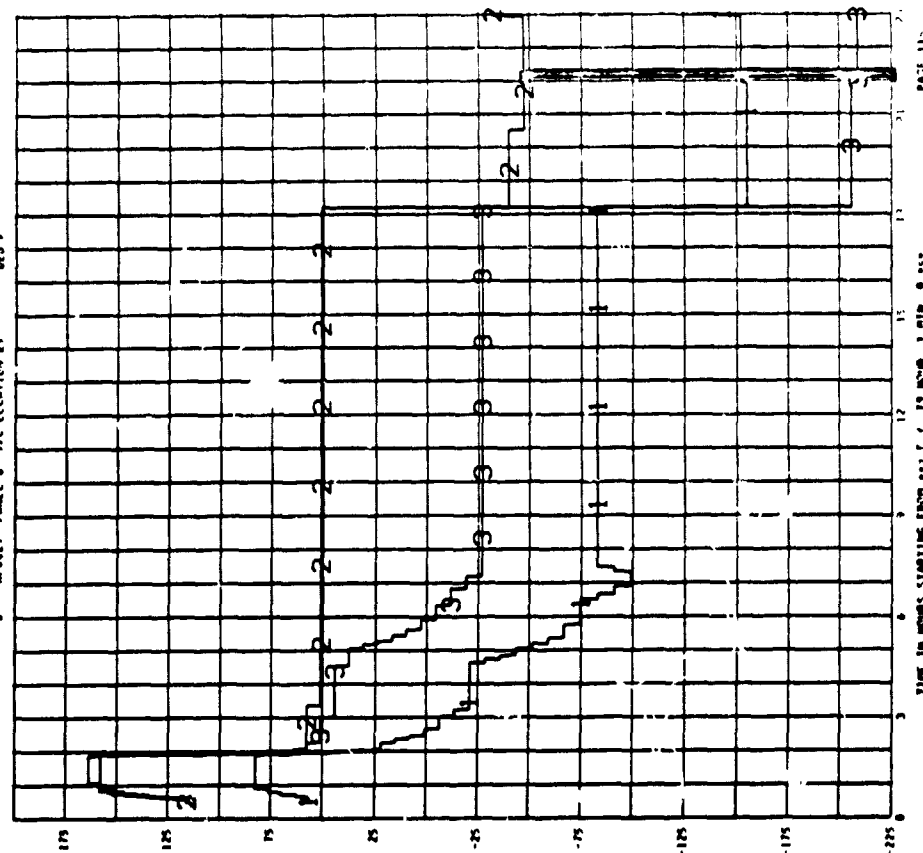


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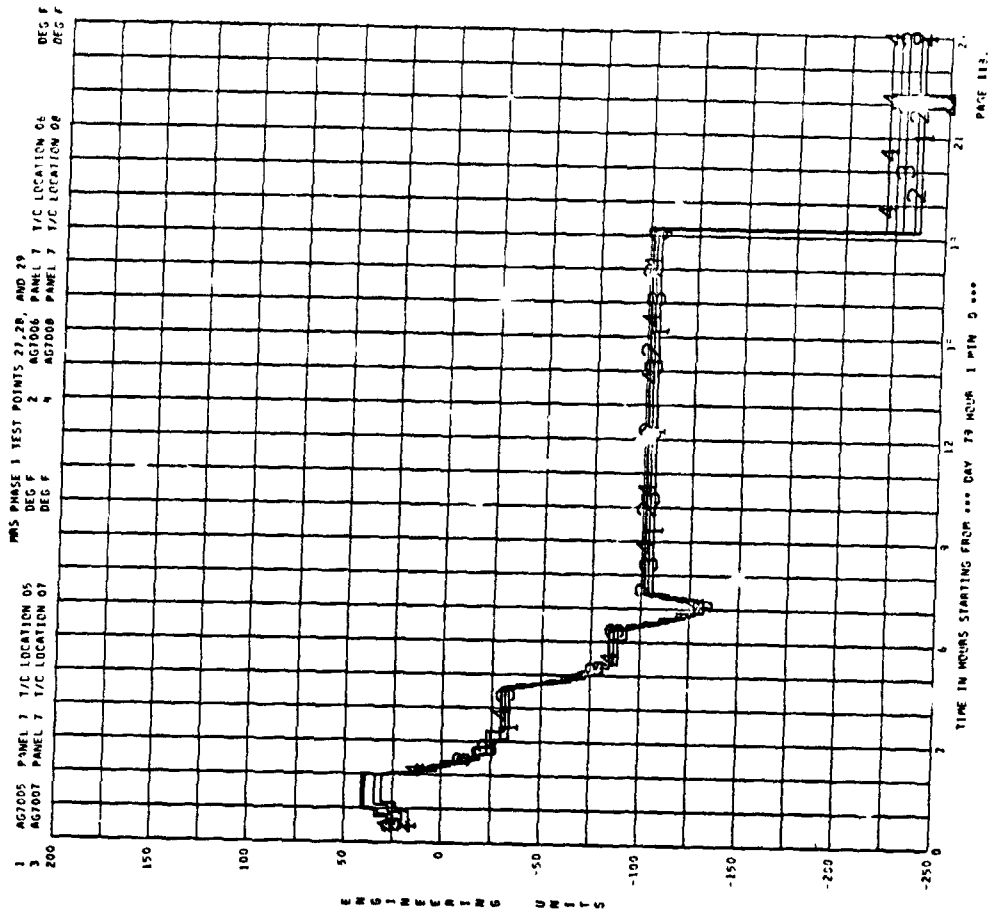
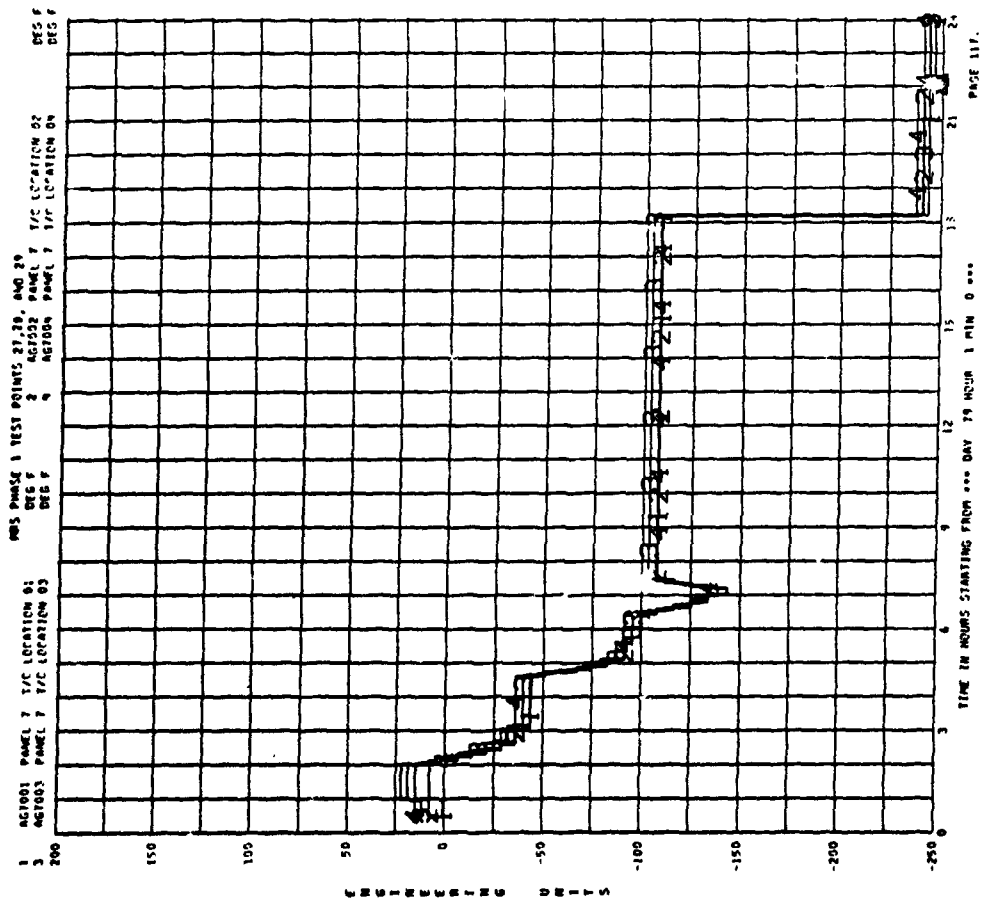
1 AF6011 PANEL 6 T/C LOCATION 11  
 2 AF6012 PANEL 6 T/C LOCATION 12  
 3 AF6013 PANEL 6 T/C LOCATION 13

MS PHASE 1 TEST POINTS 27, 28, AND 29

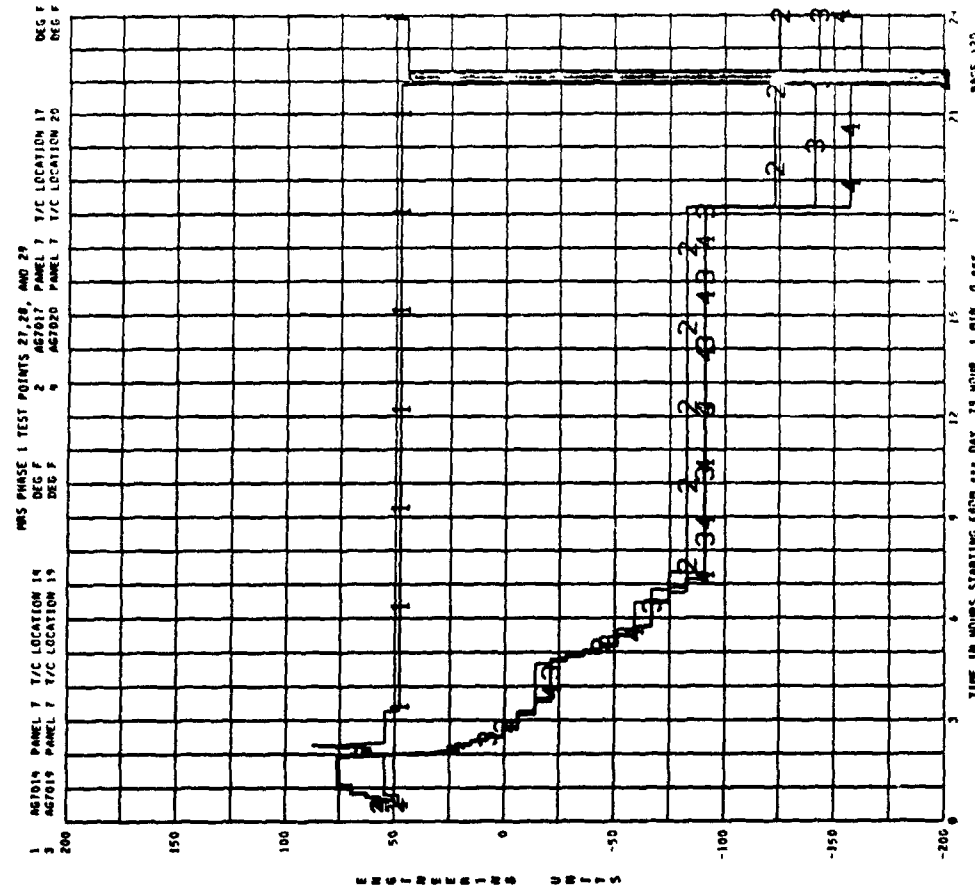
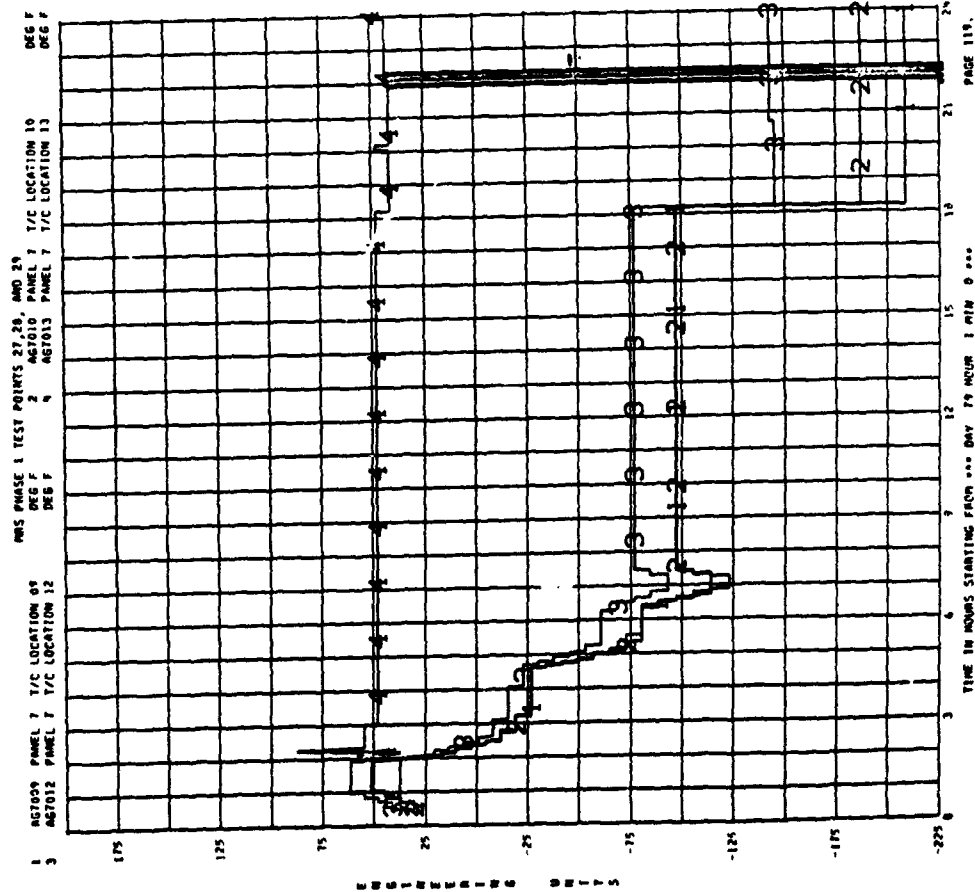
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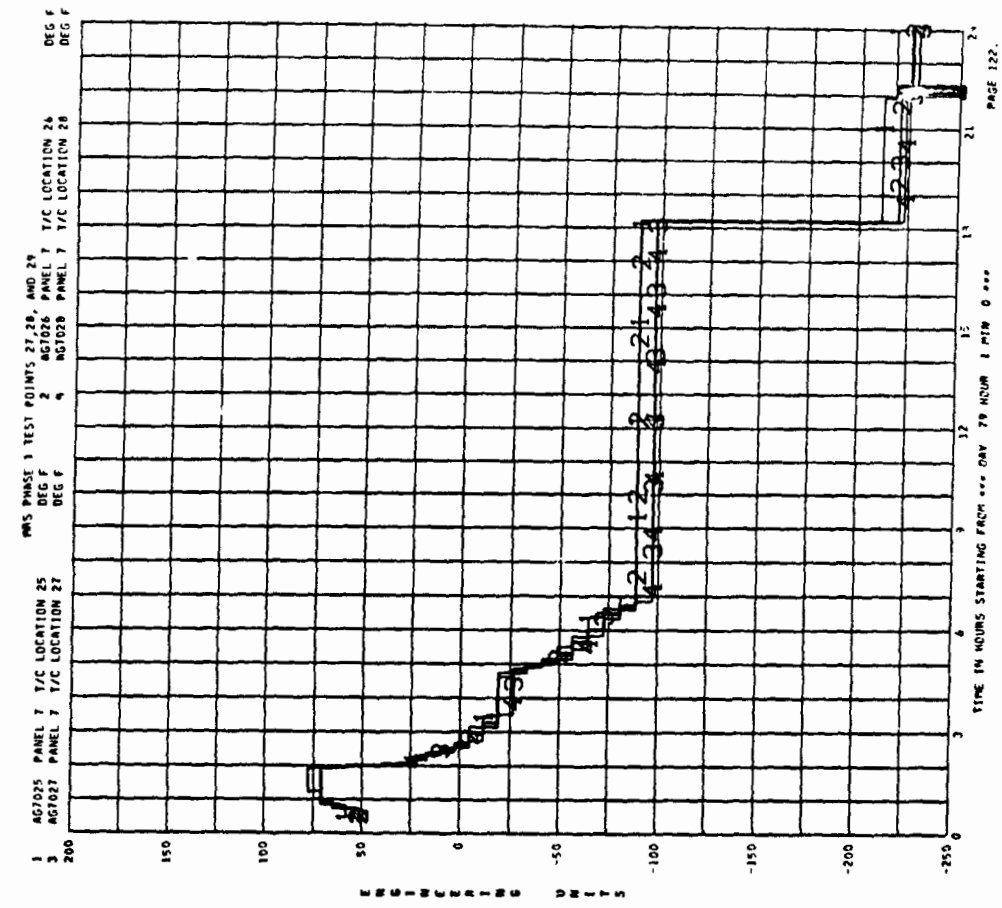
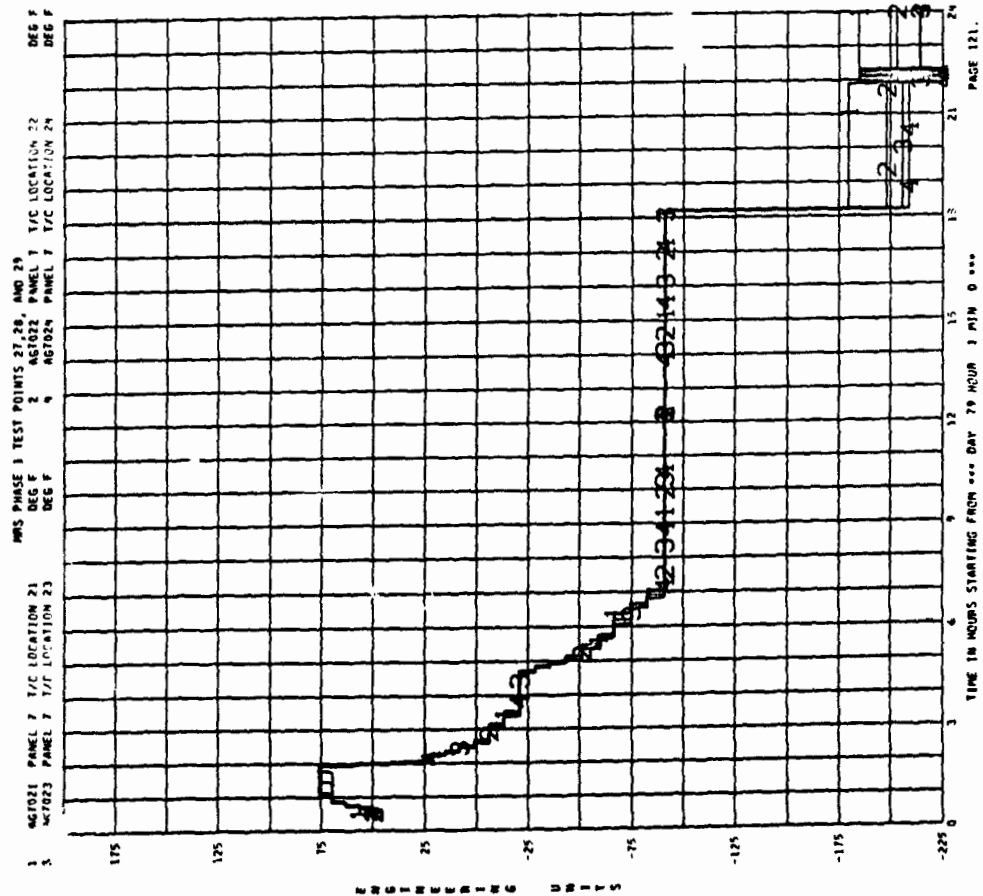


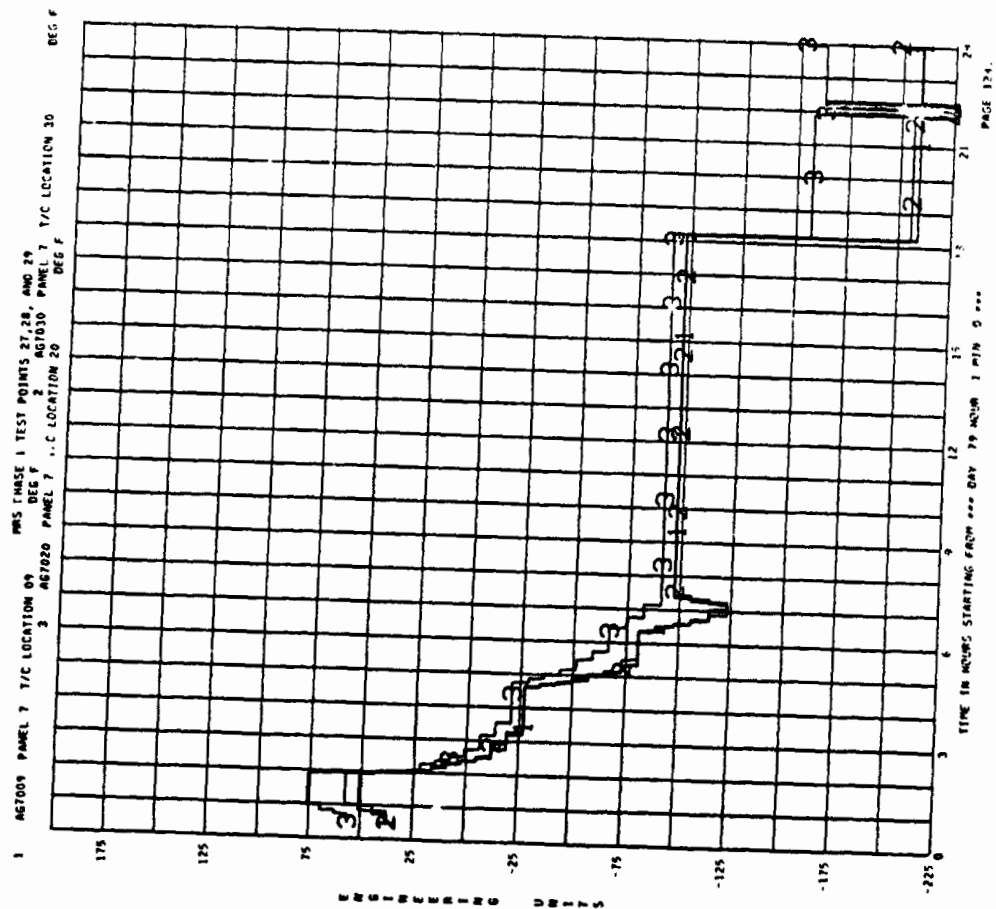
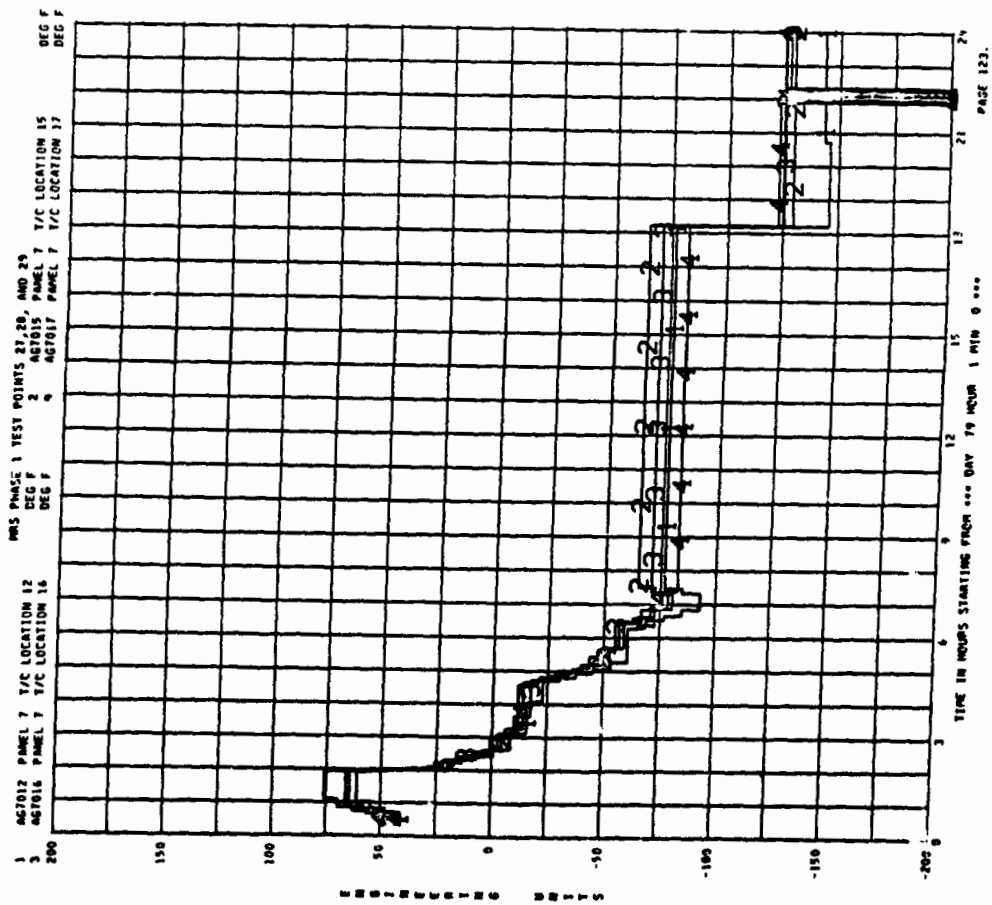
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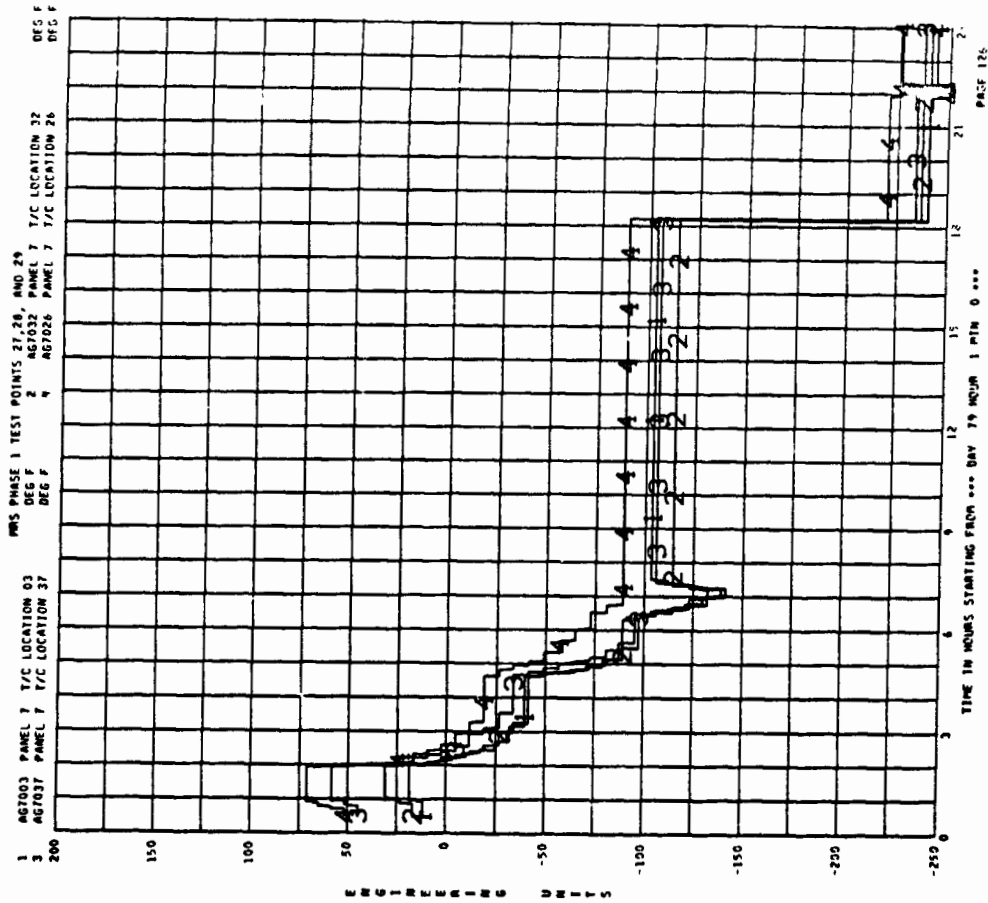
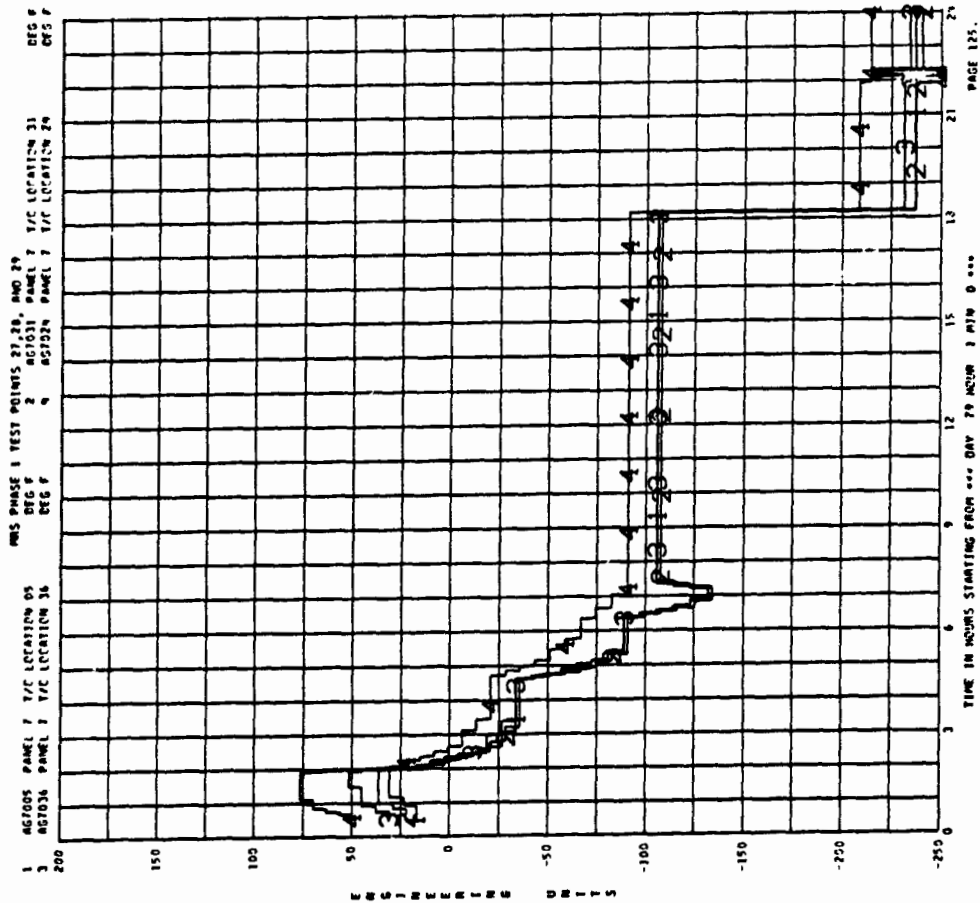


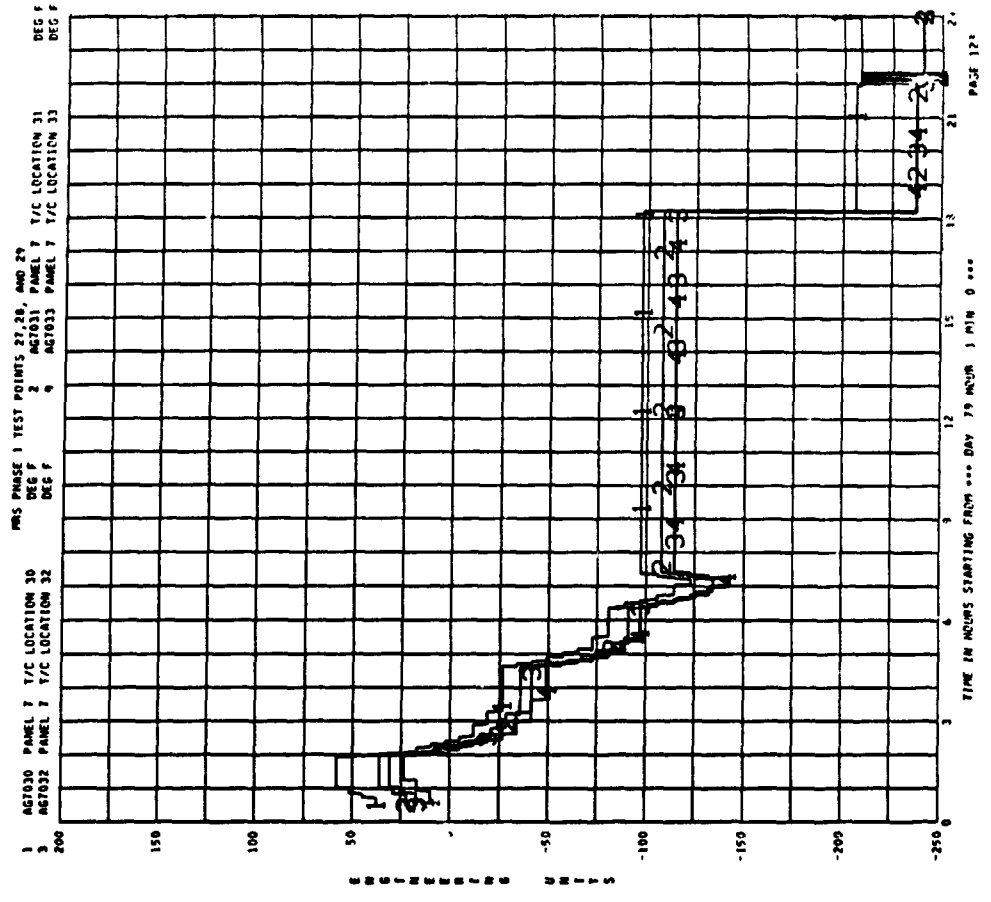
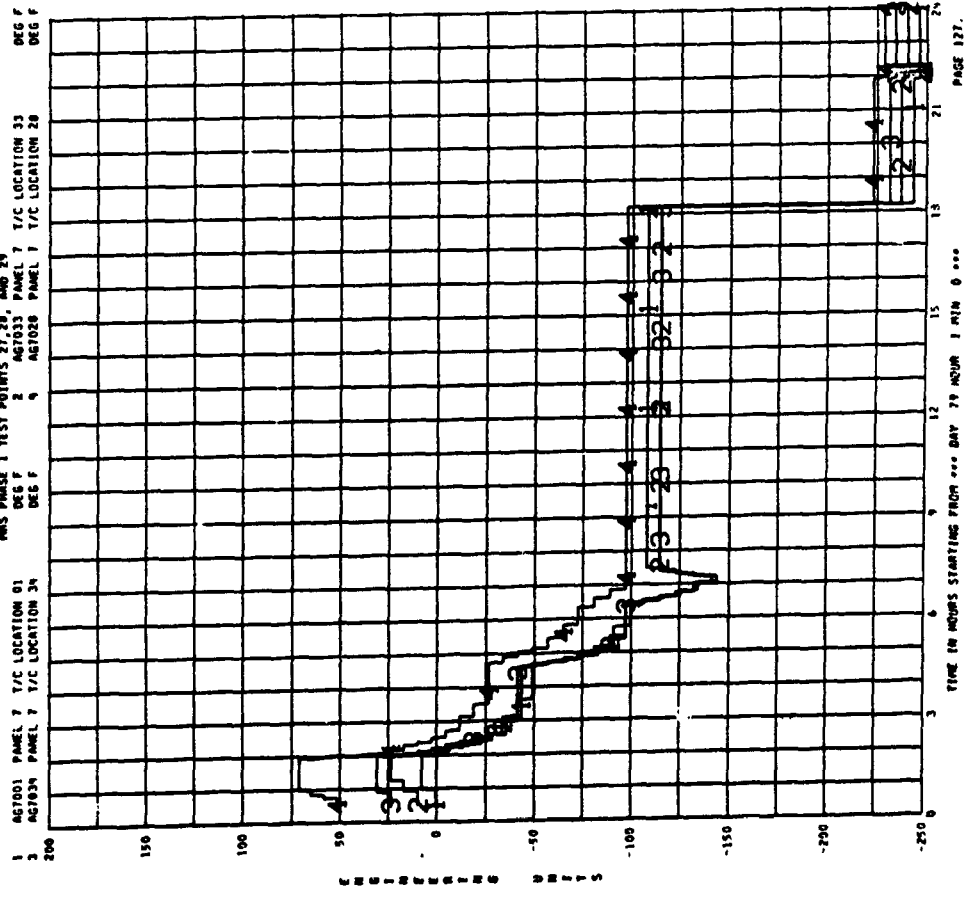


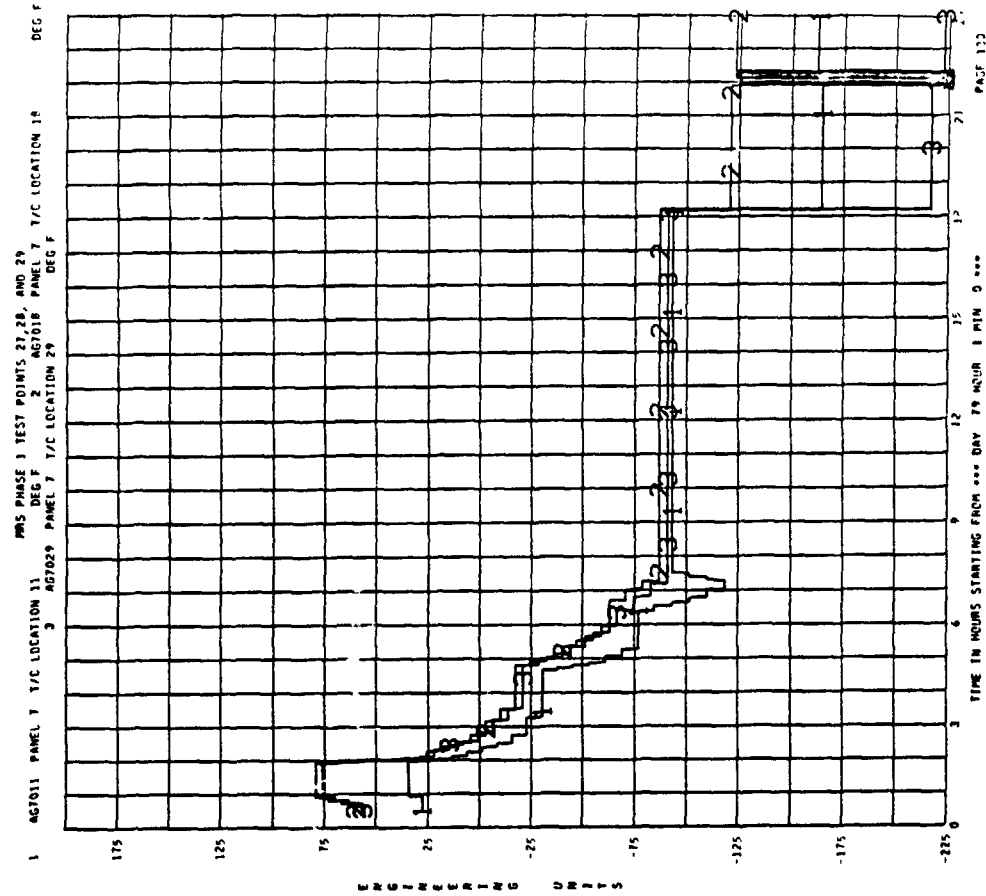
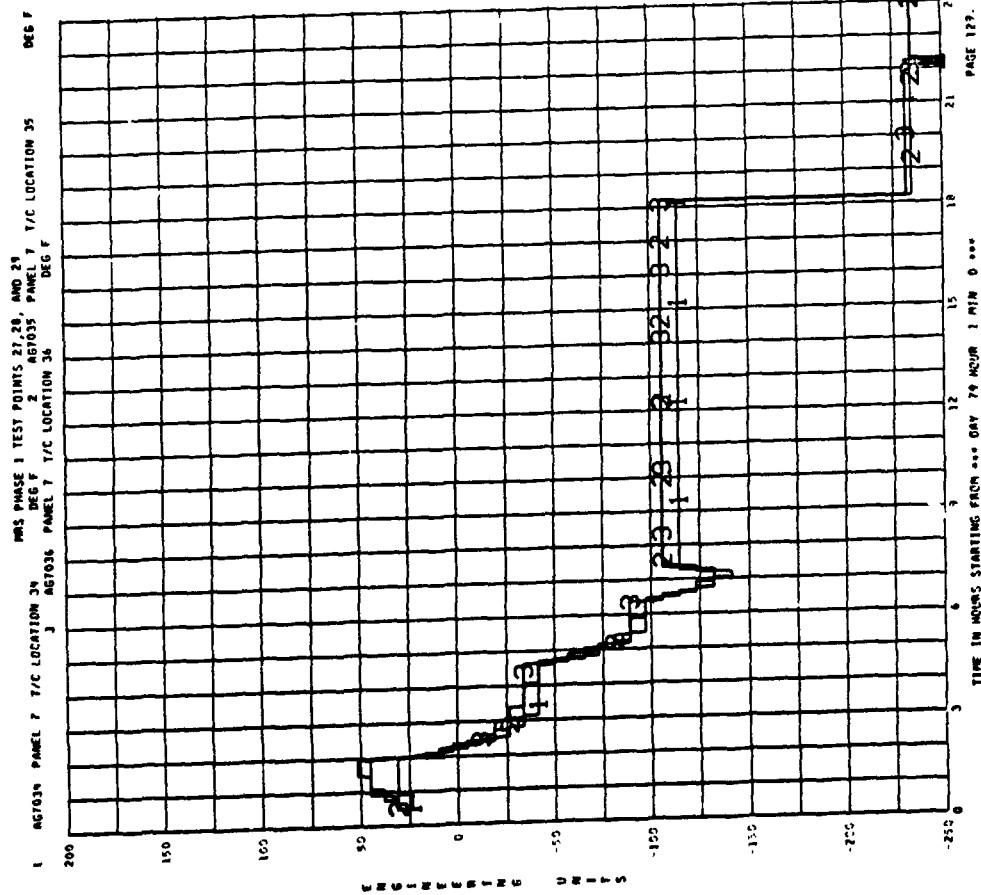


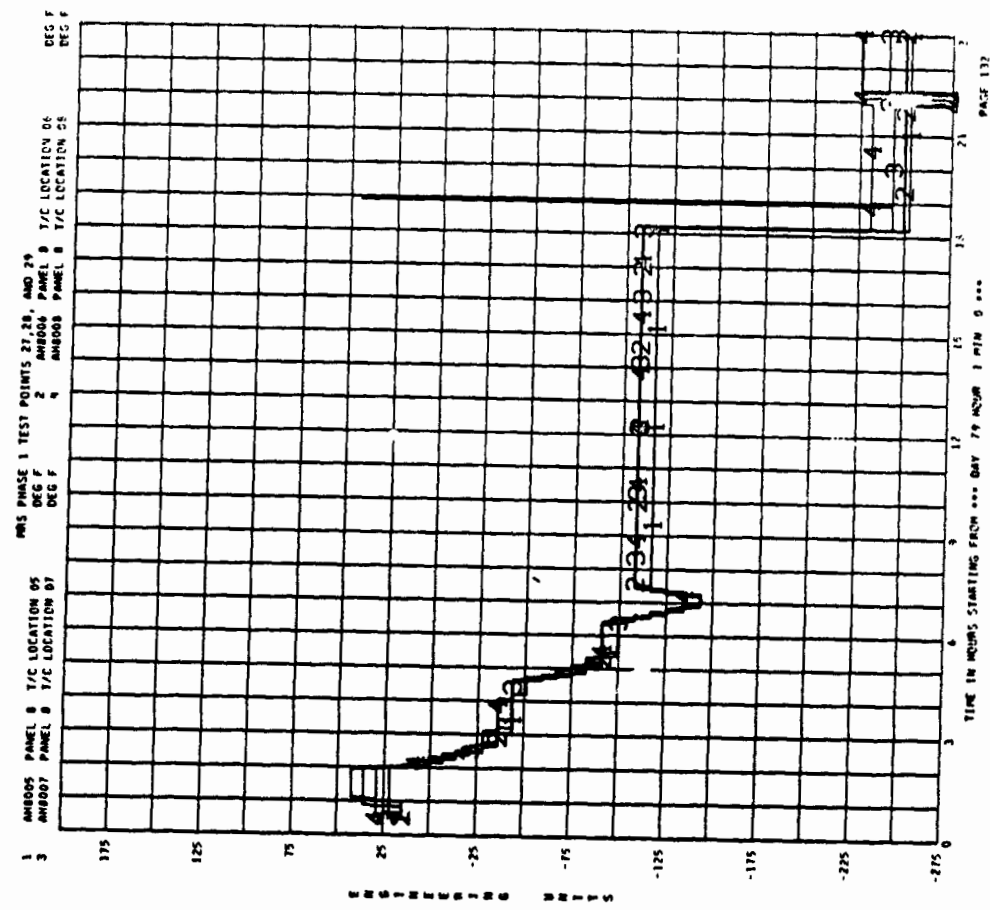
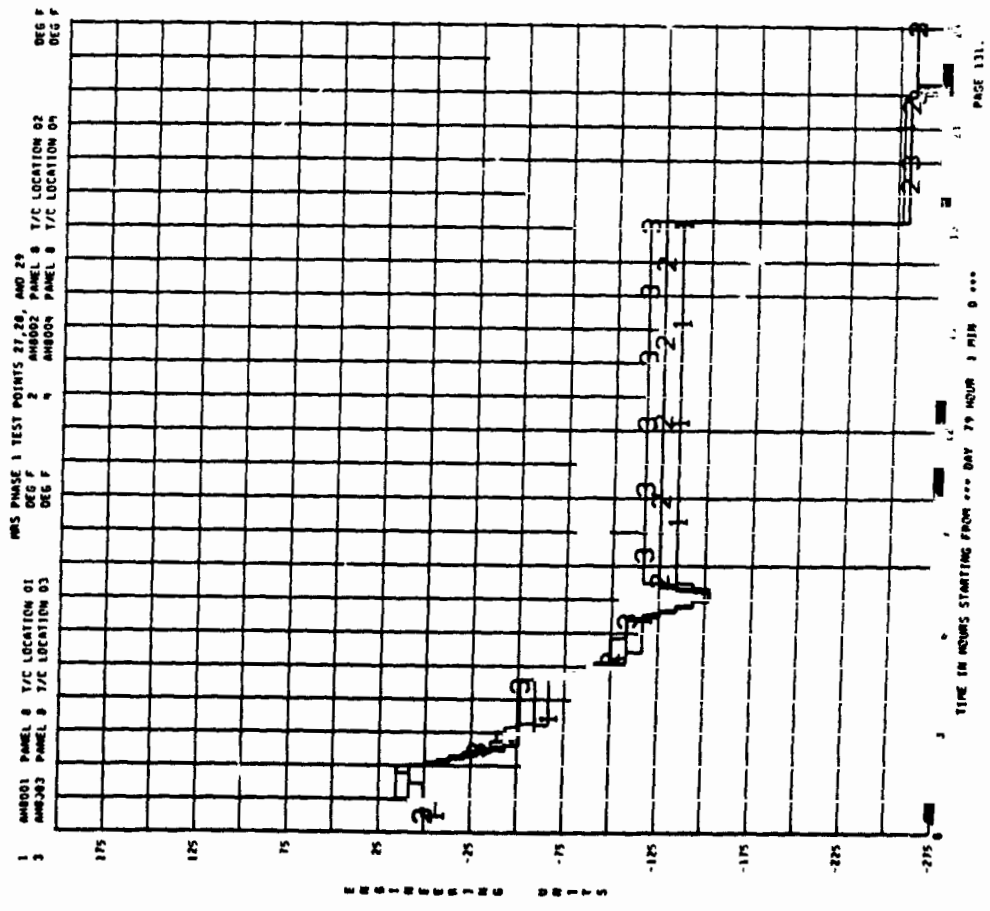


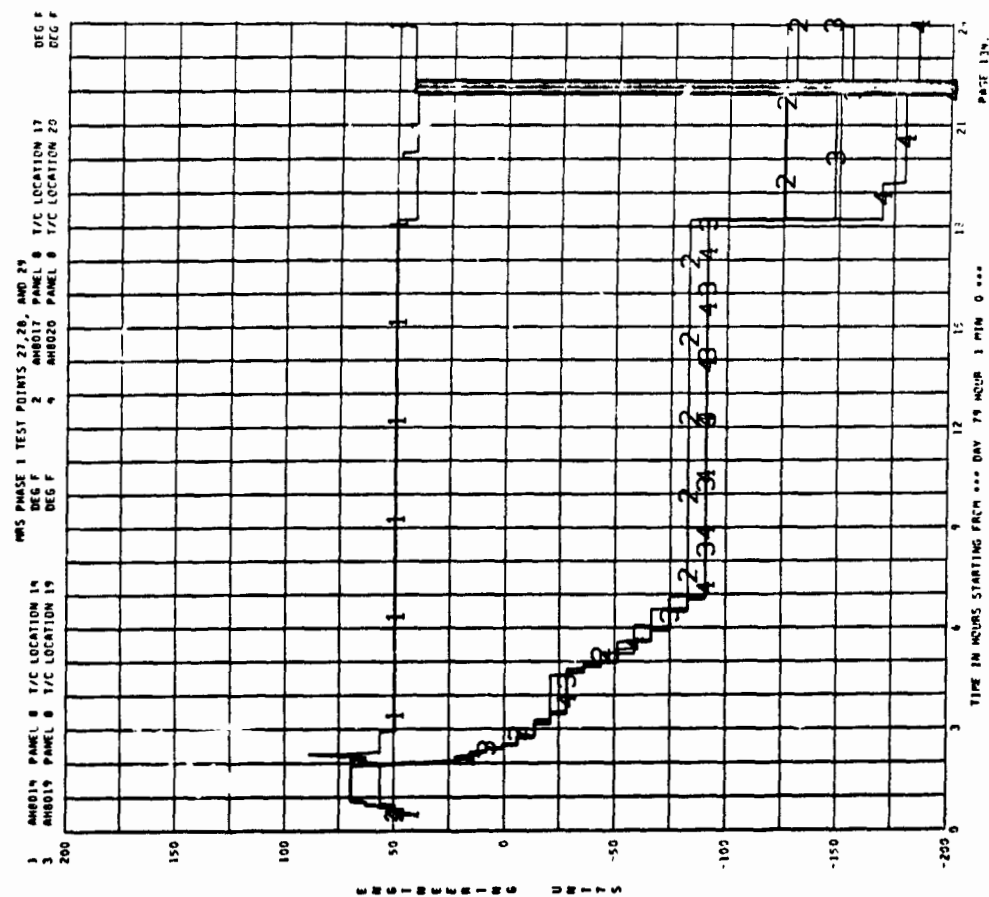
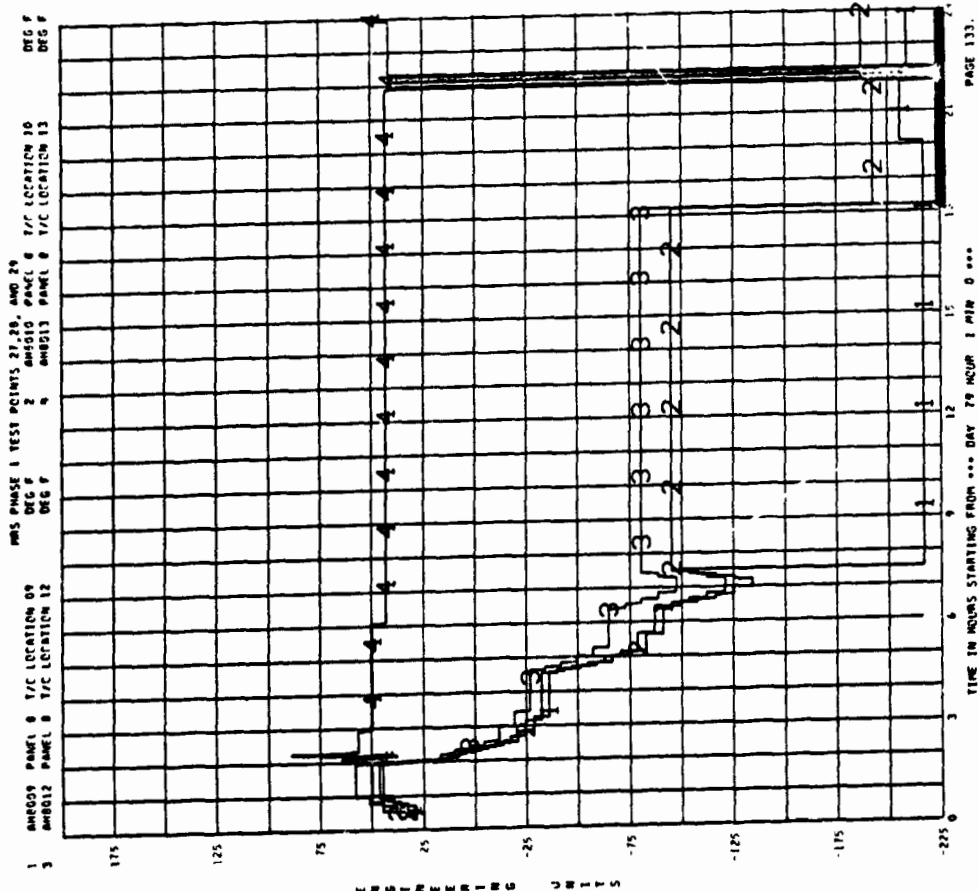




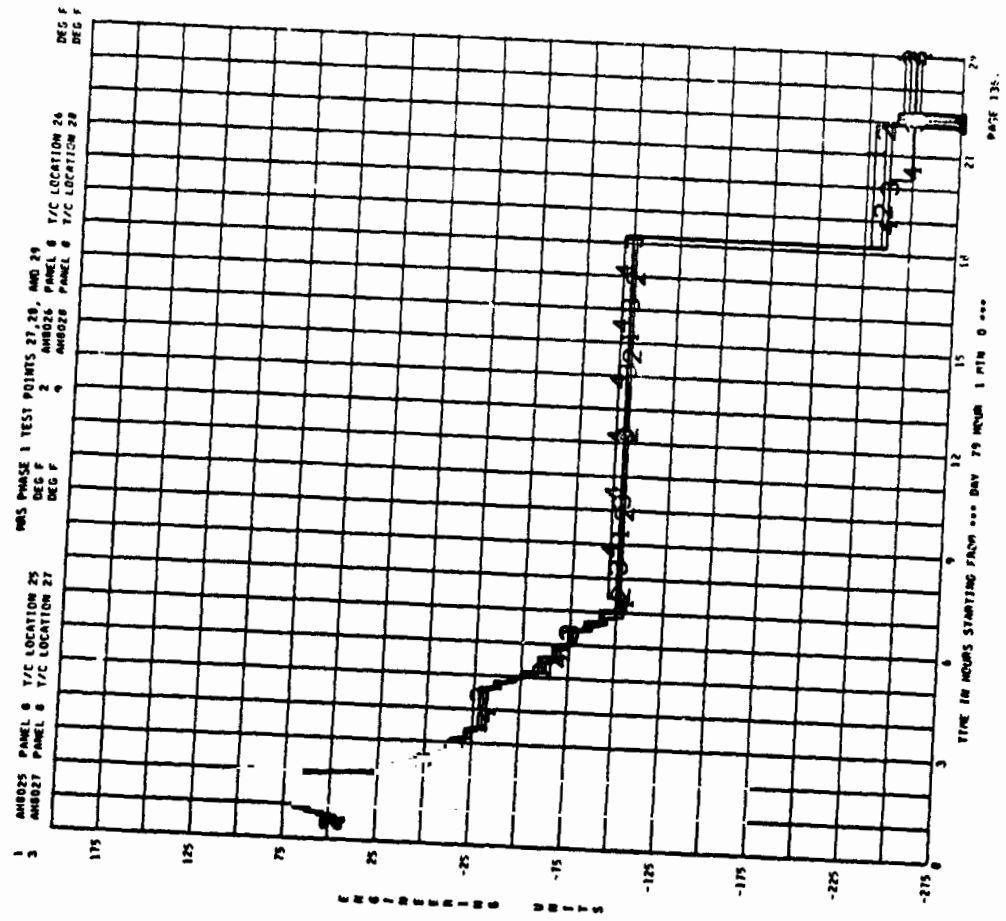
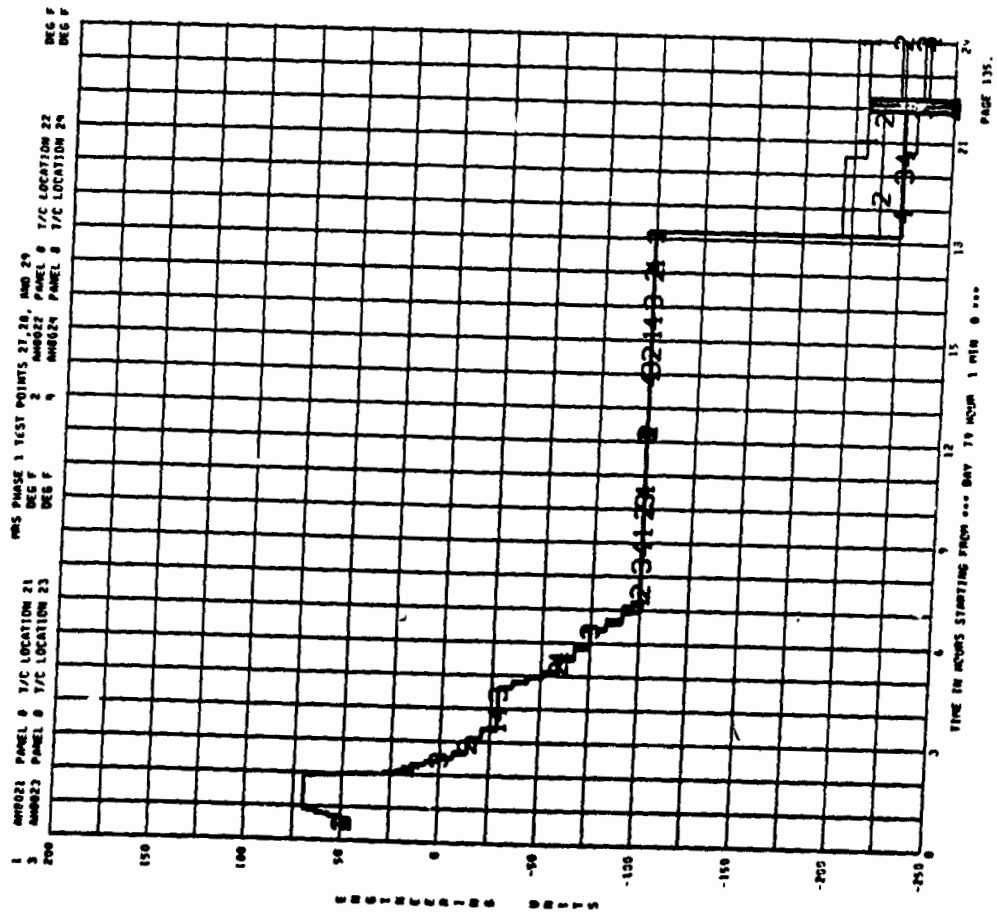


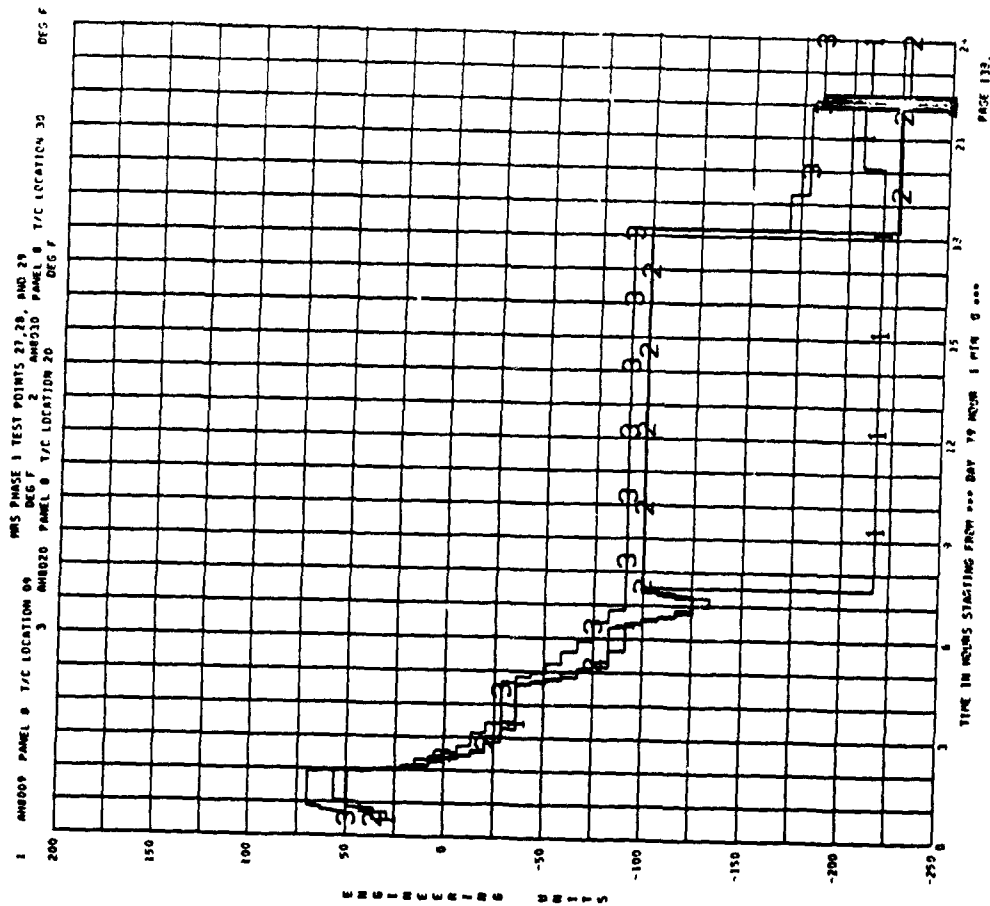
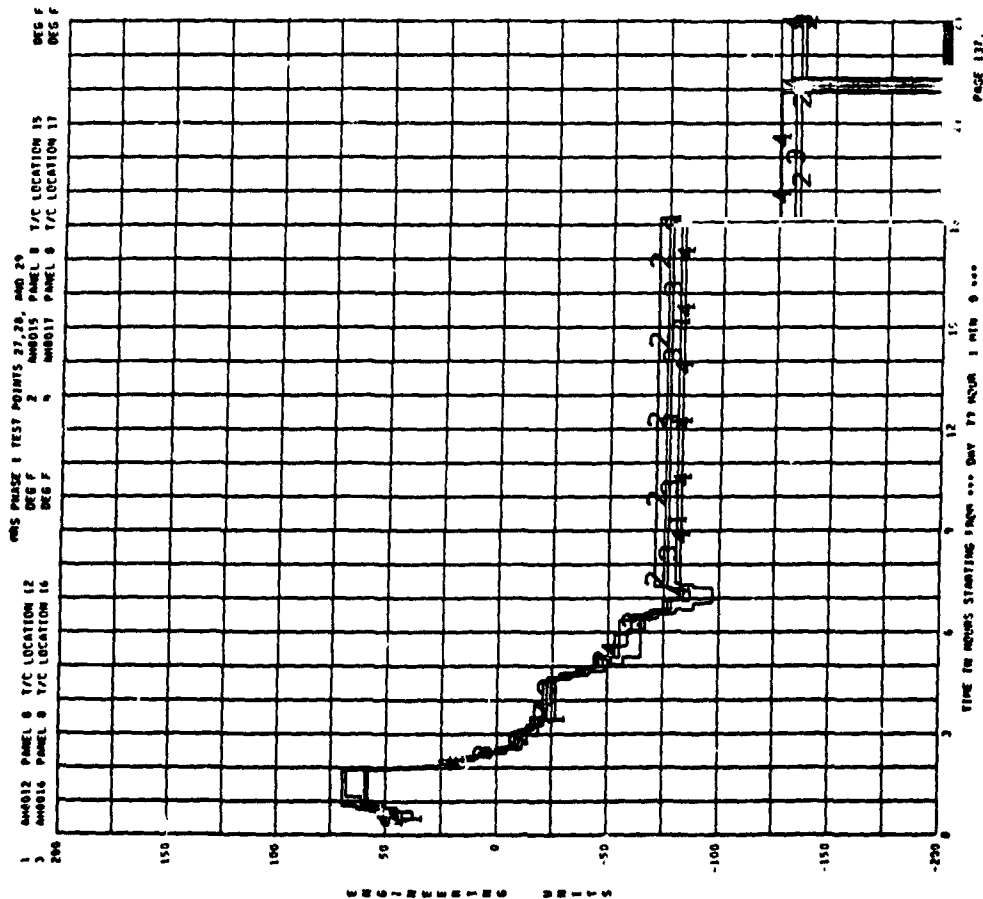


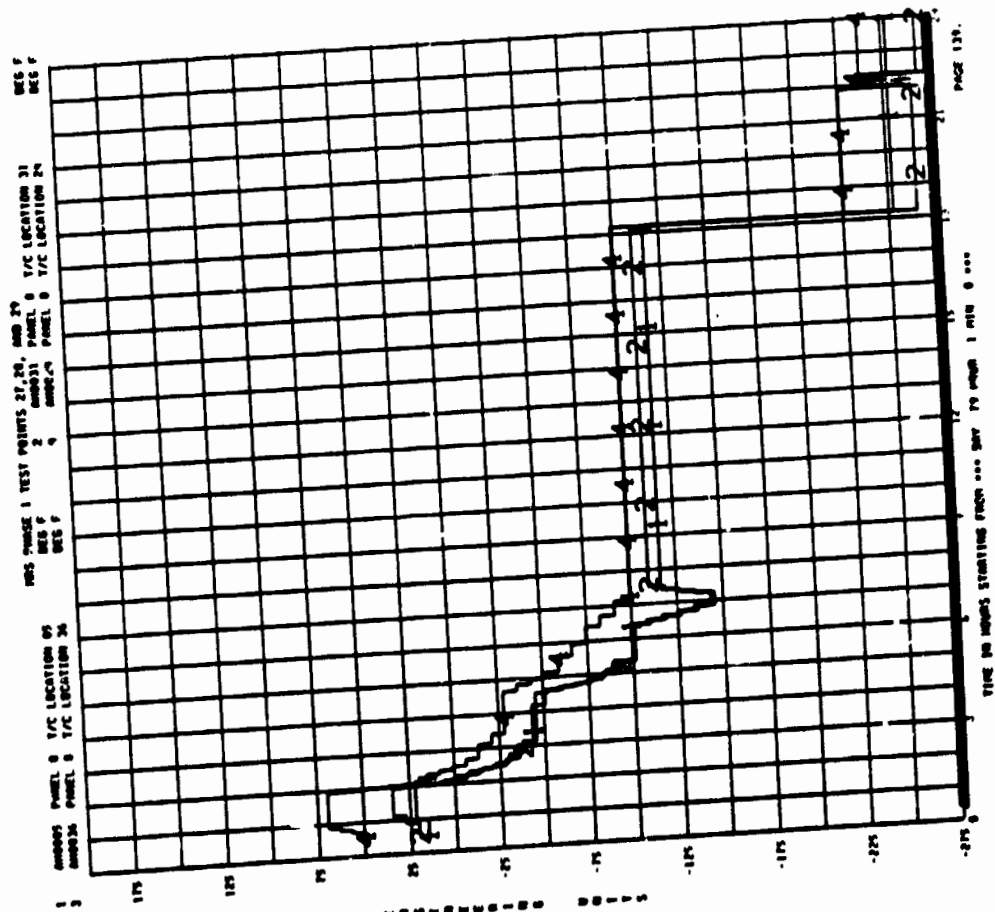
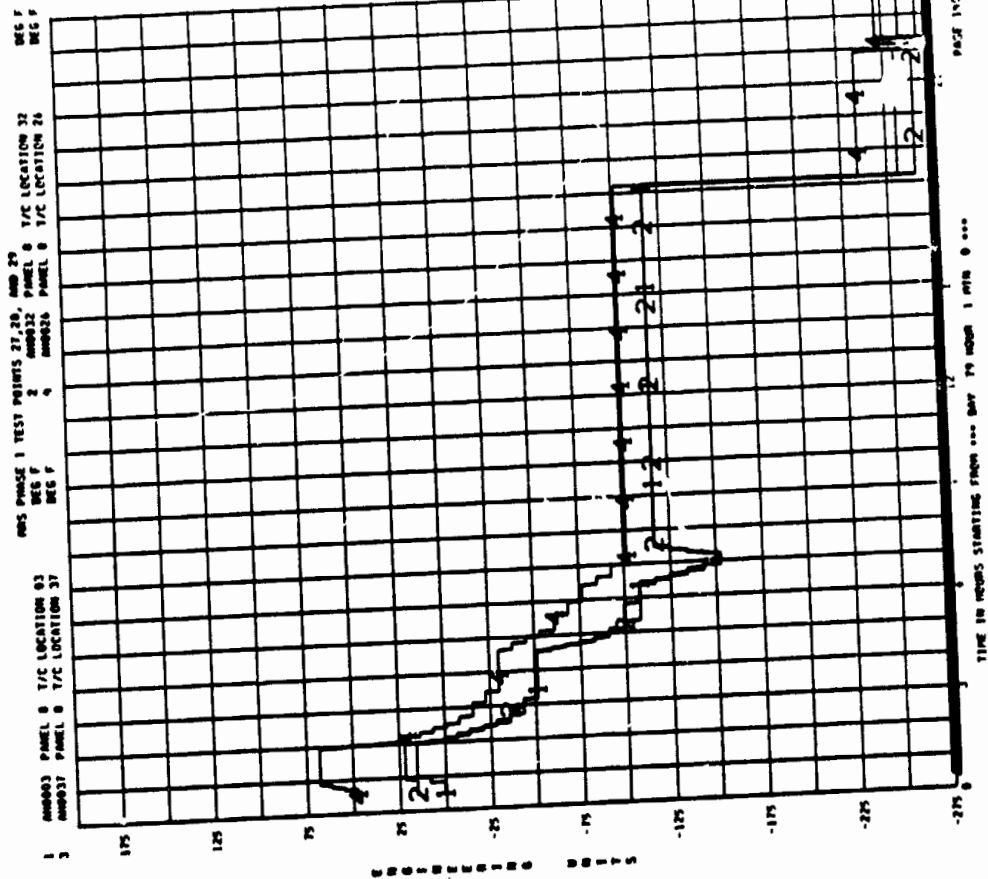


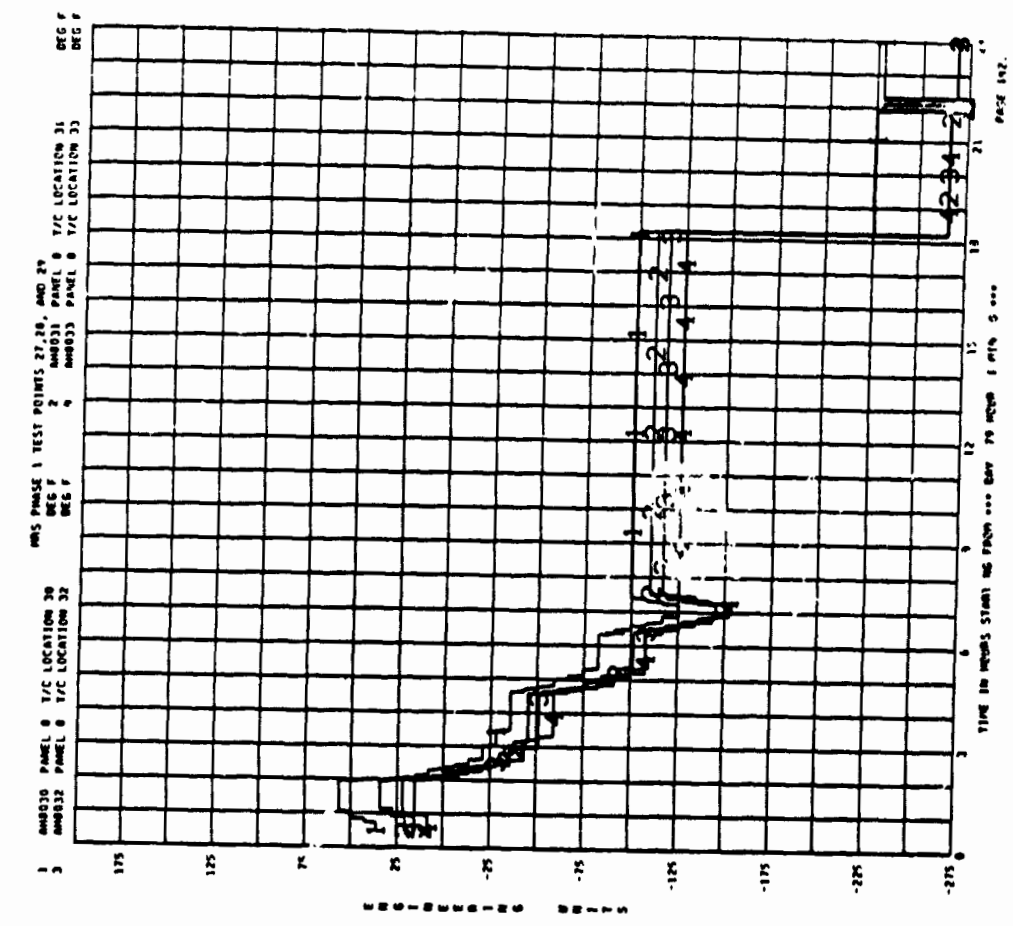
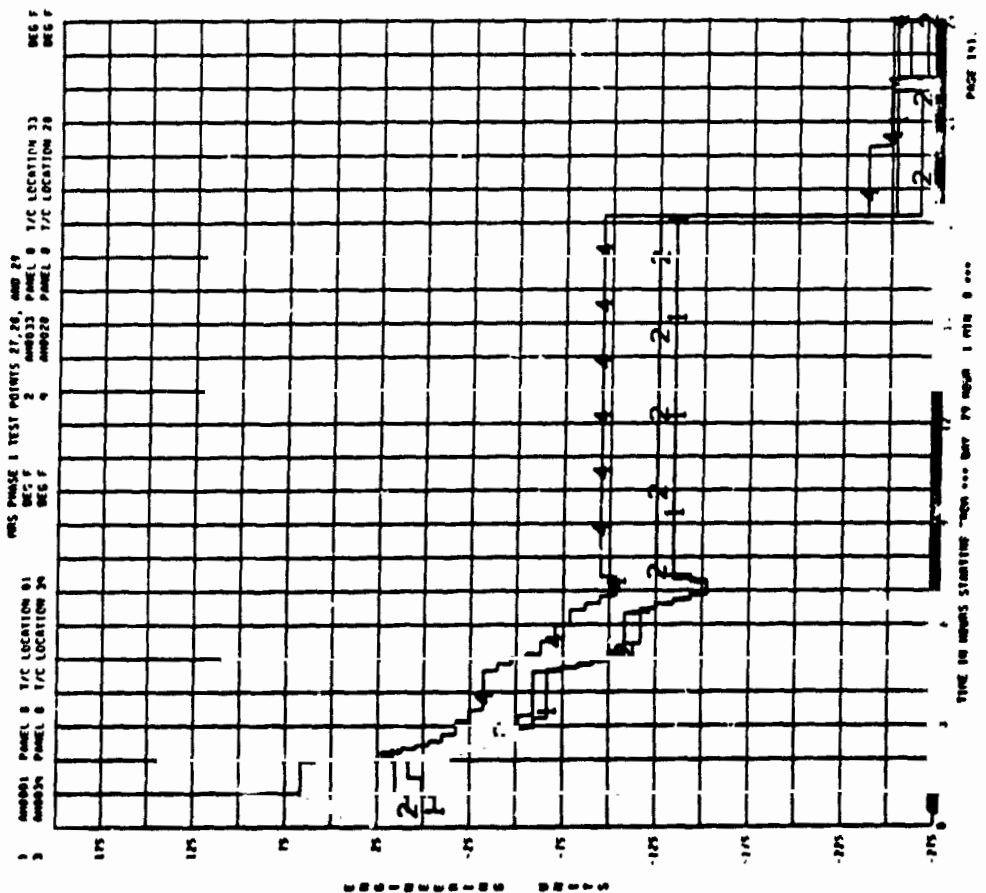


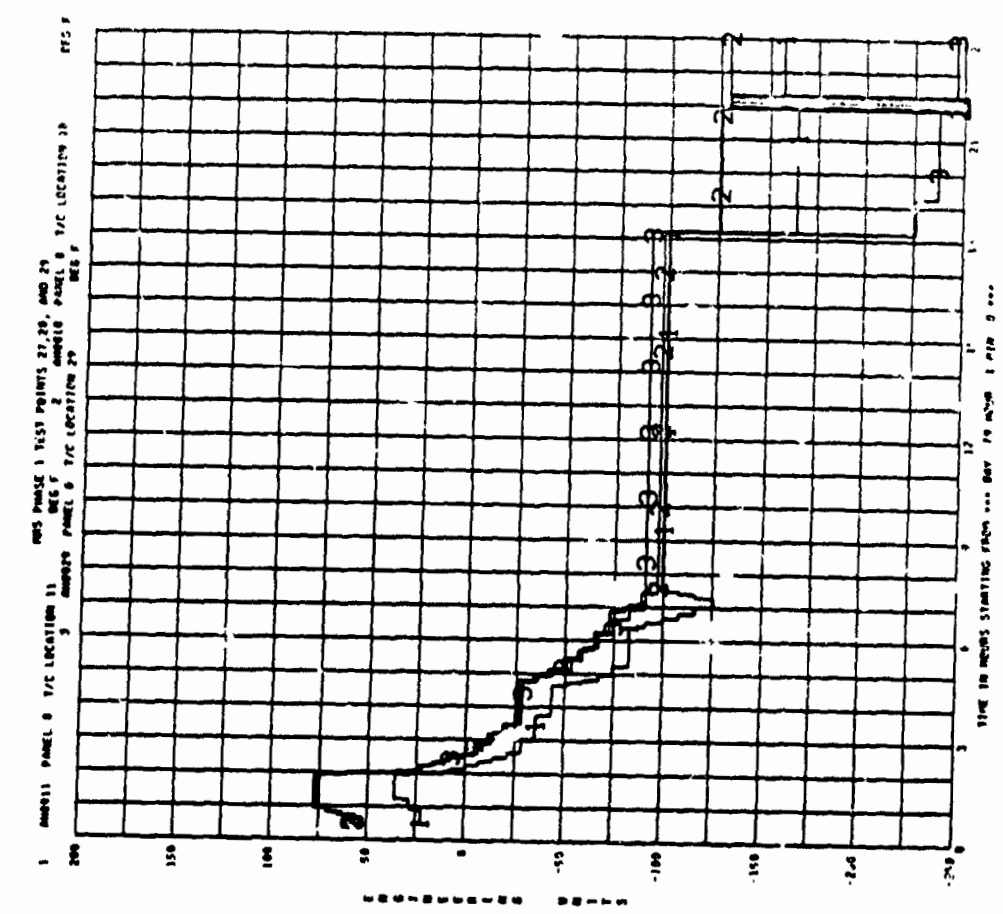
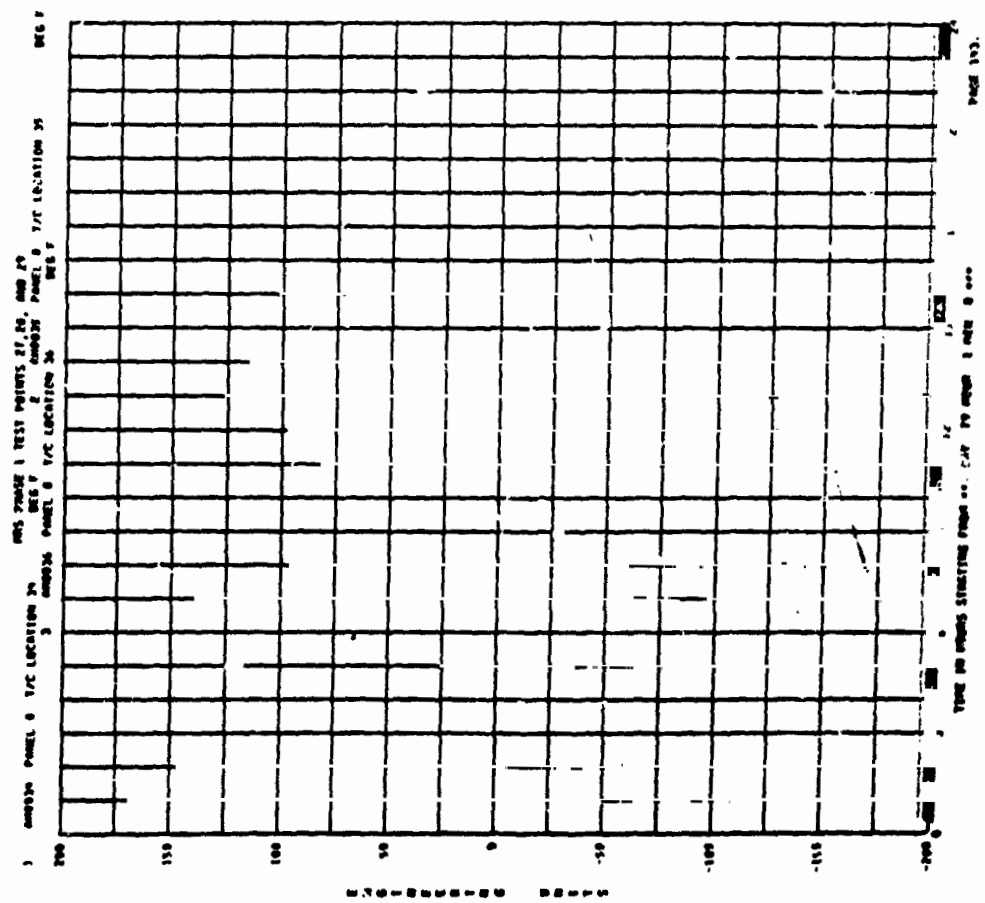










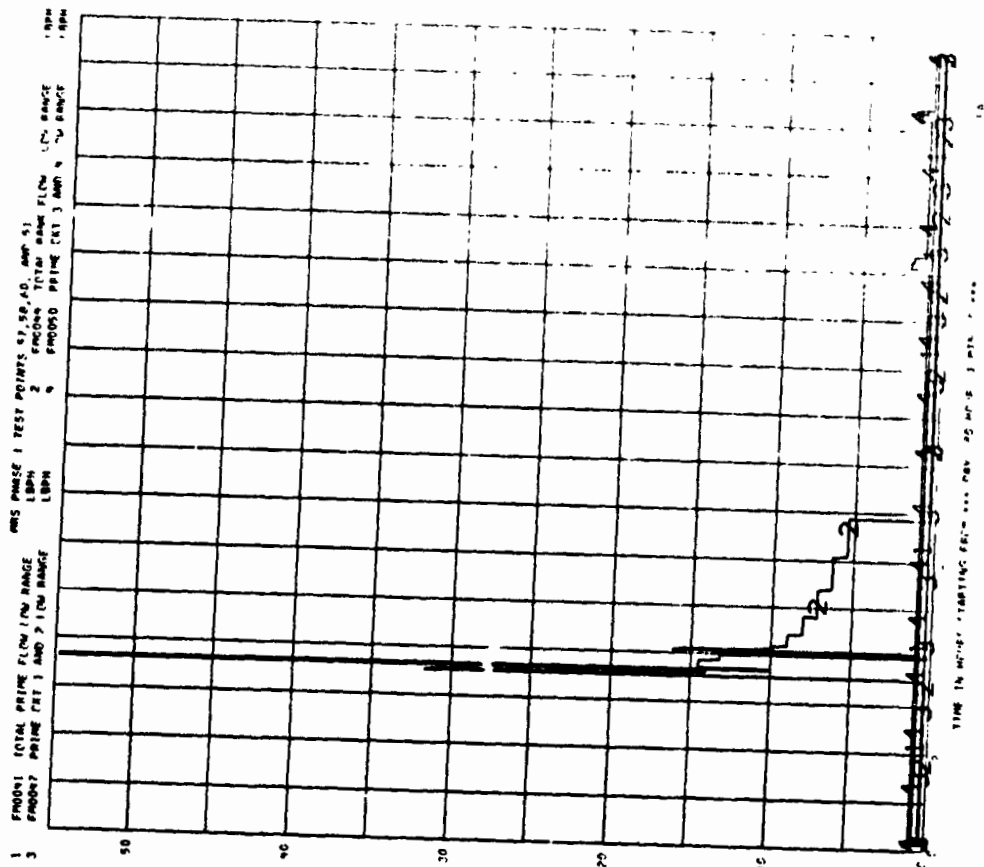
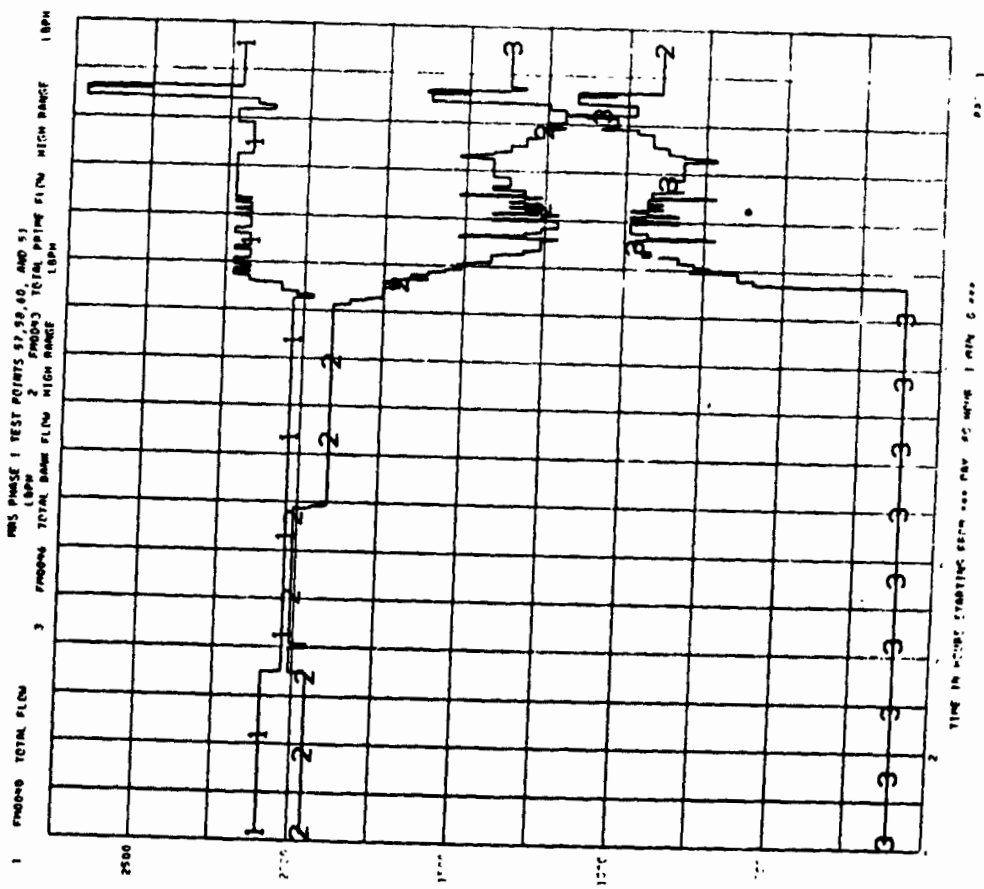


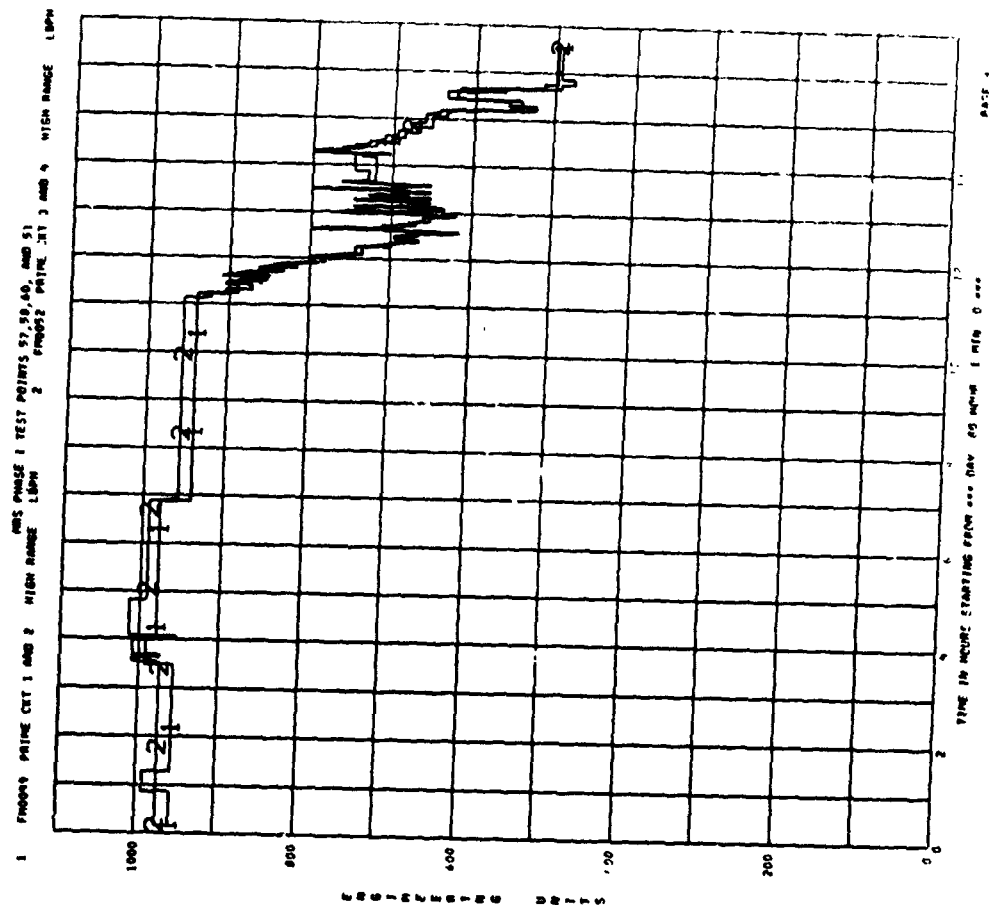
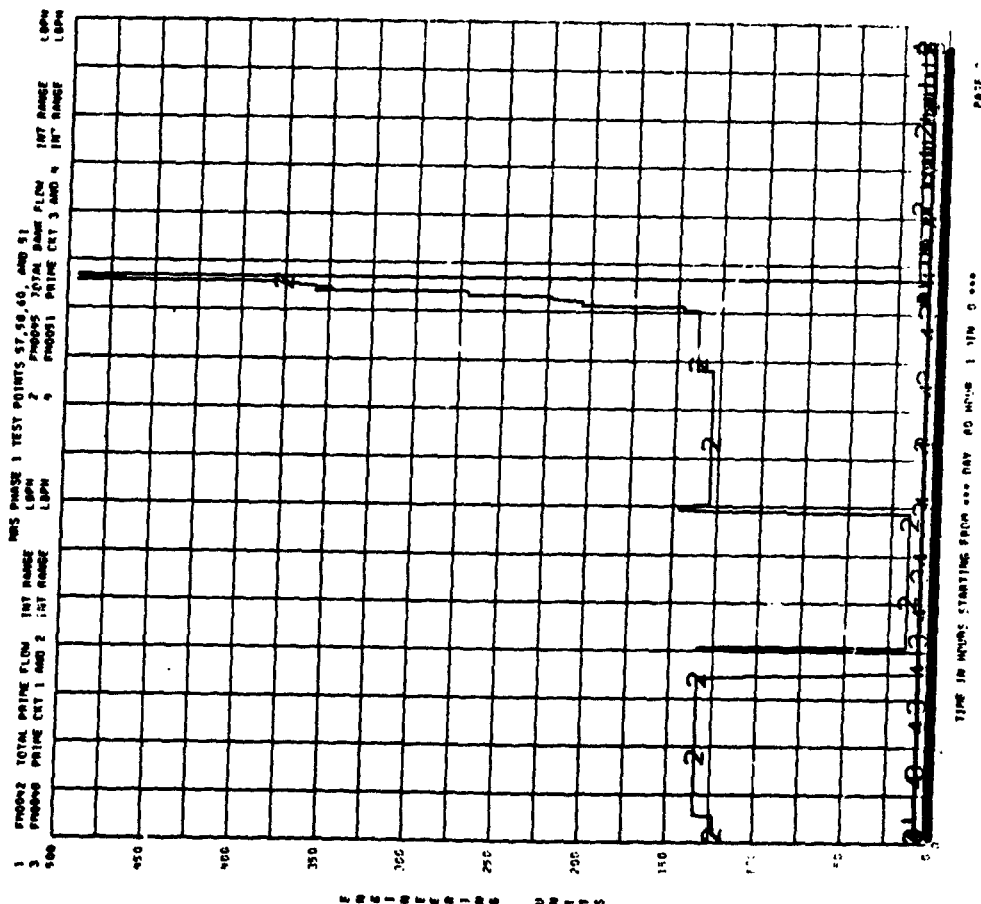
TEST GROUP K

80:01:10 - 80:17:35

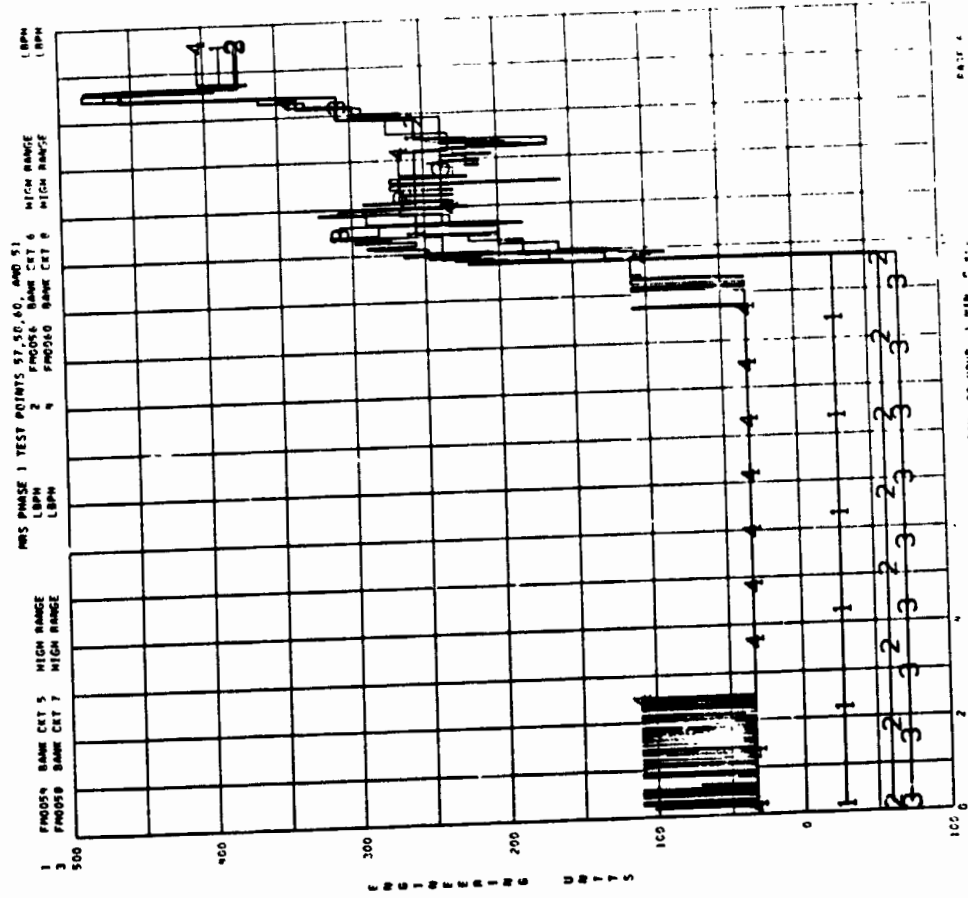
INCLUDES TEST POINTS

57  
58  
60  
51

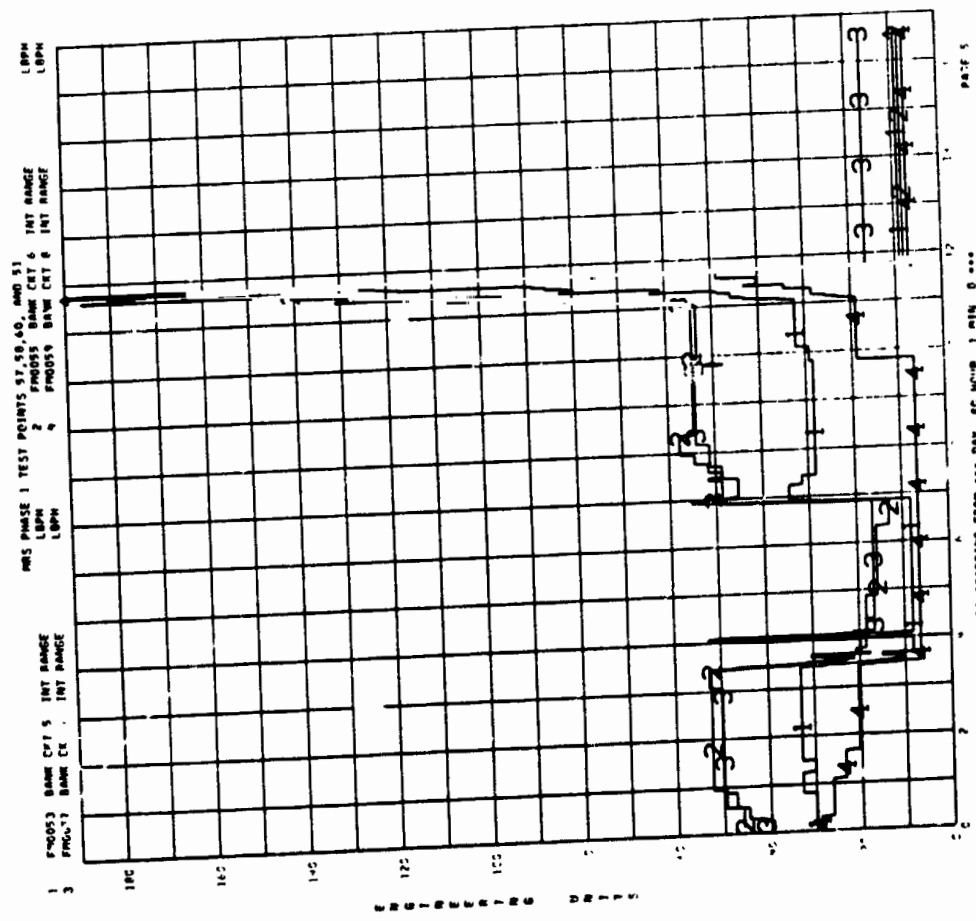




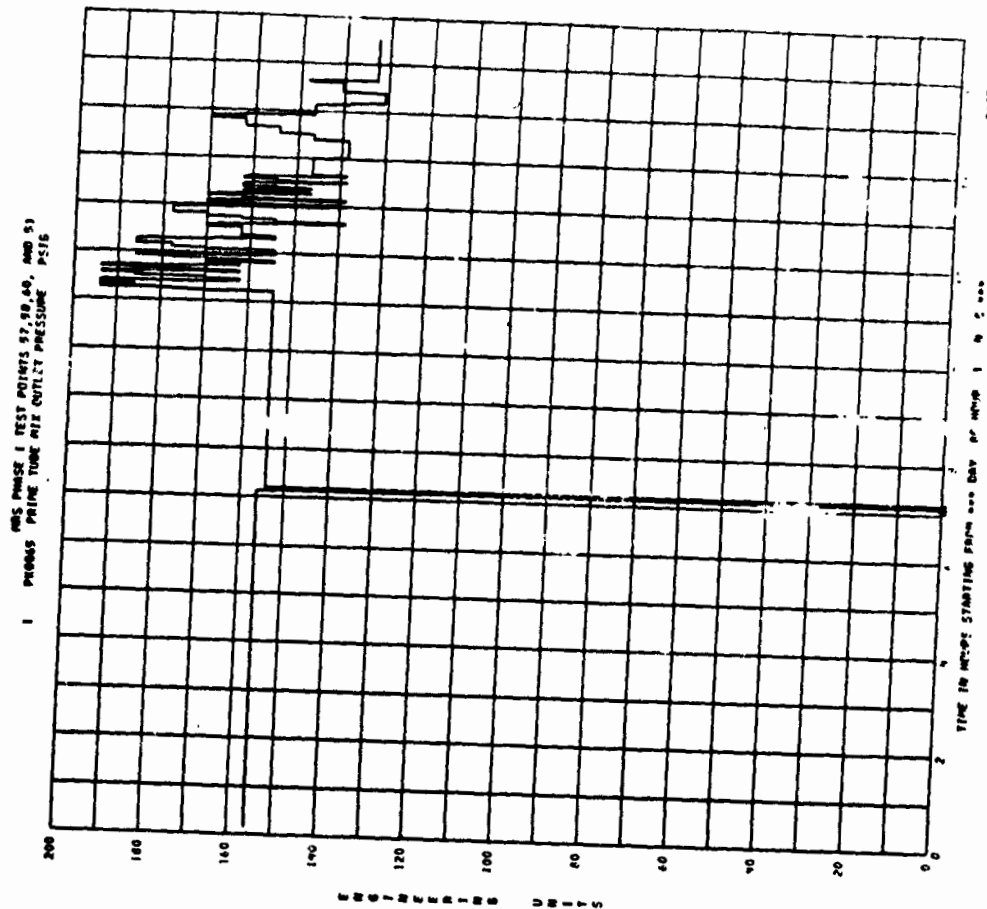
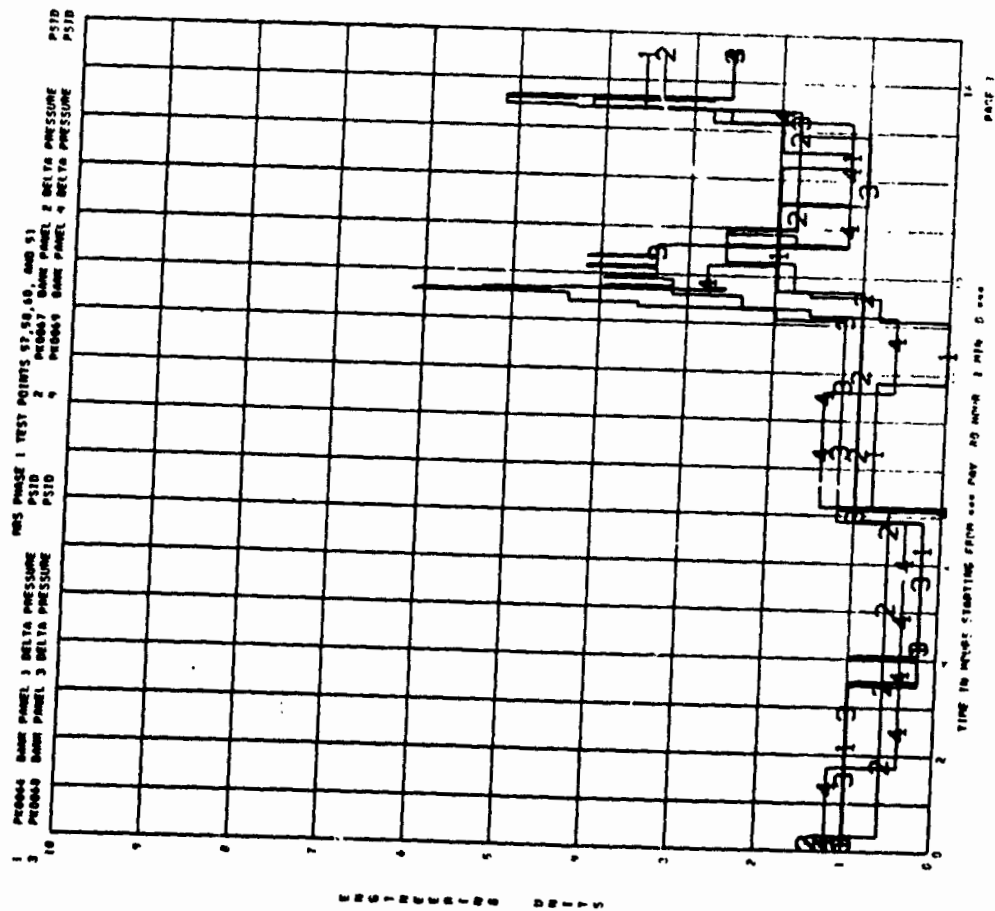


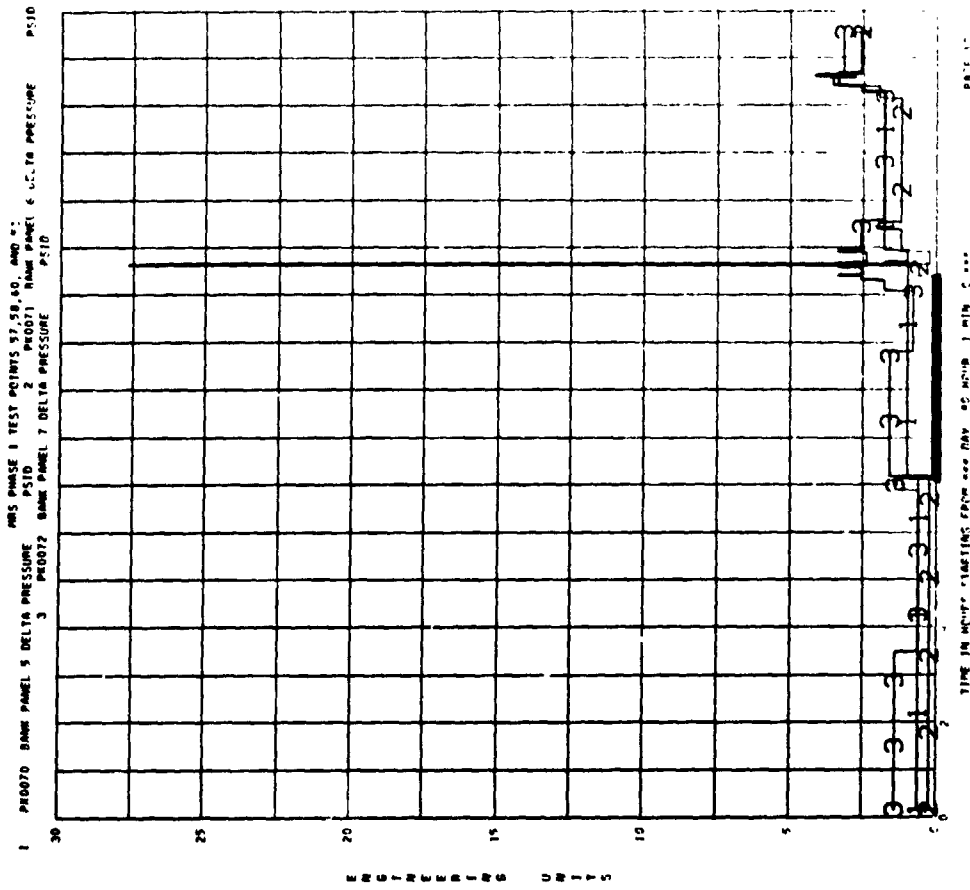
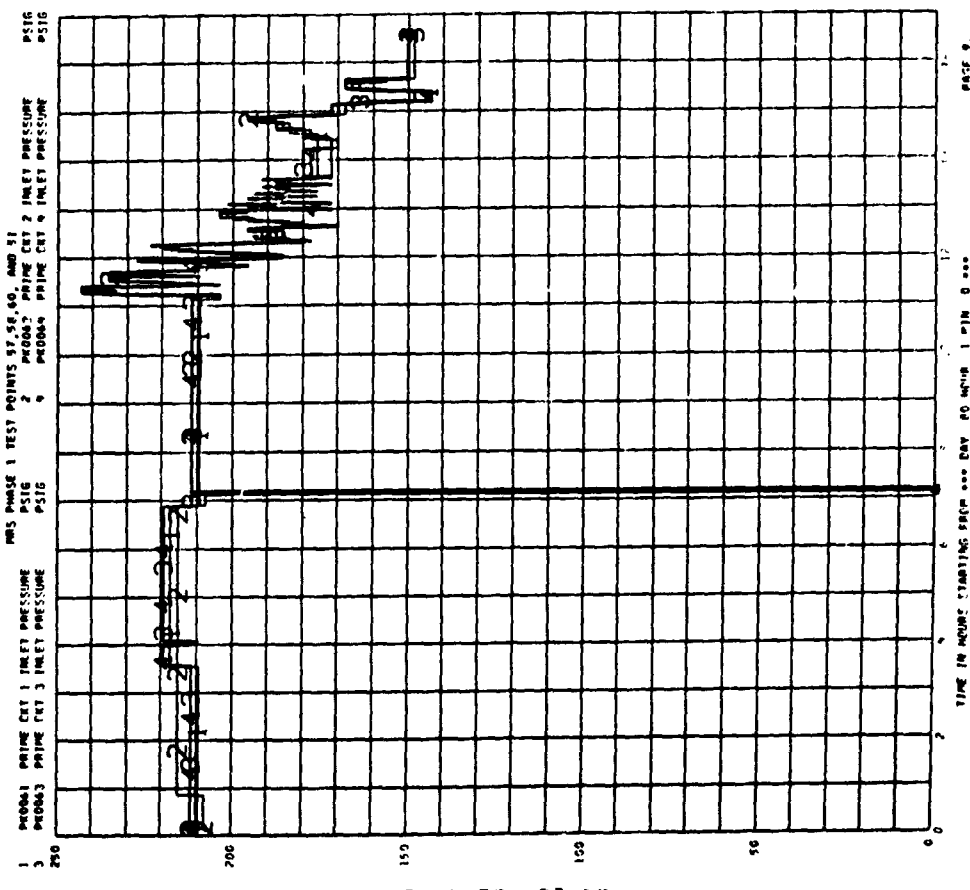


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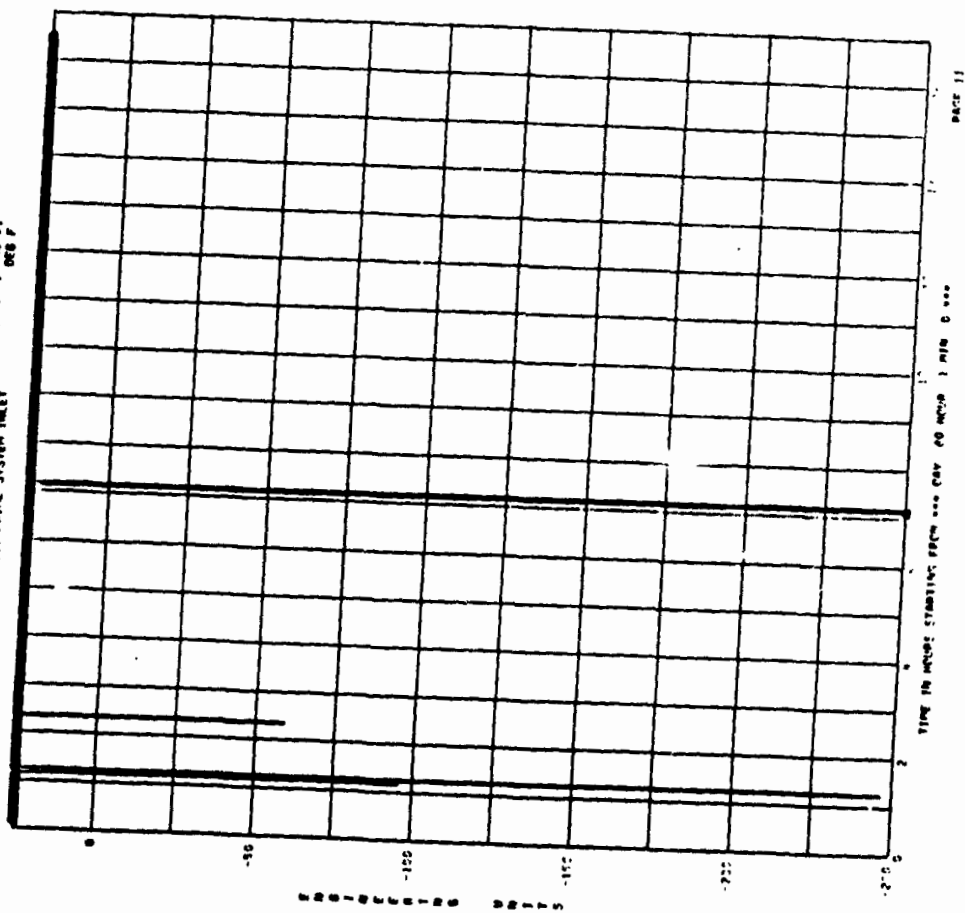


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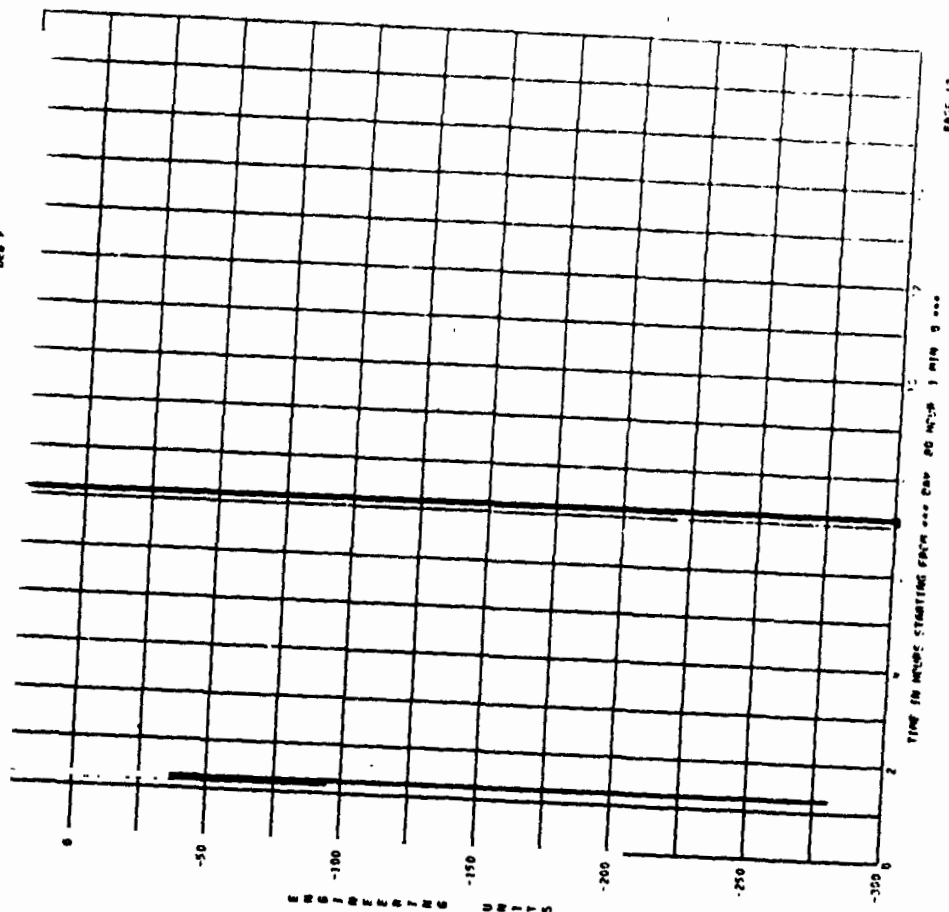


PHASE 1 TEST POINTS 97, 98, 40, AND 51  
 1 110000 PRIME SYSTEM INLET



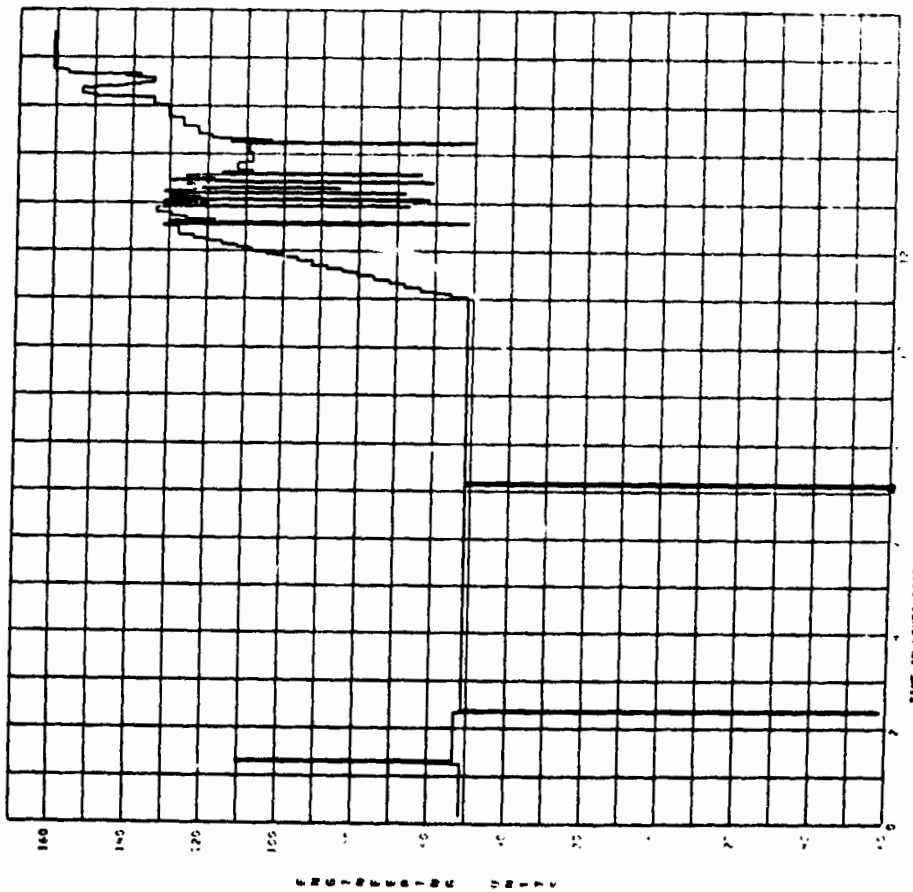
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PHASE 1 TEST POINTS 97, 98, 40, AND 51  
 1 110000 BANK SYSTEM INLET



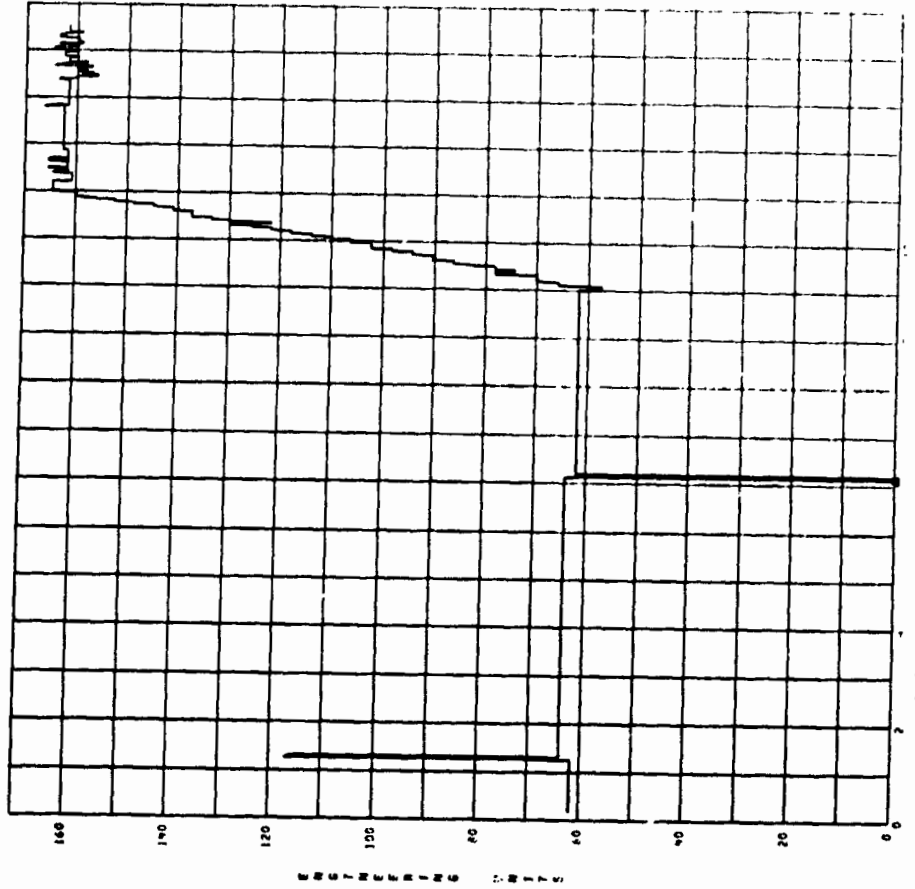
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MRS PHASE 1 TEST POINTS 97, 98, 40, AND 51  
 1 4J0001 PRIME SYSTEM INLET  
 DEG P

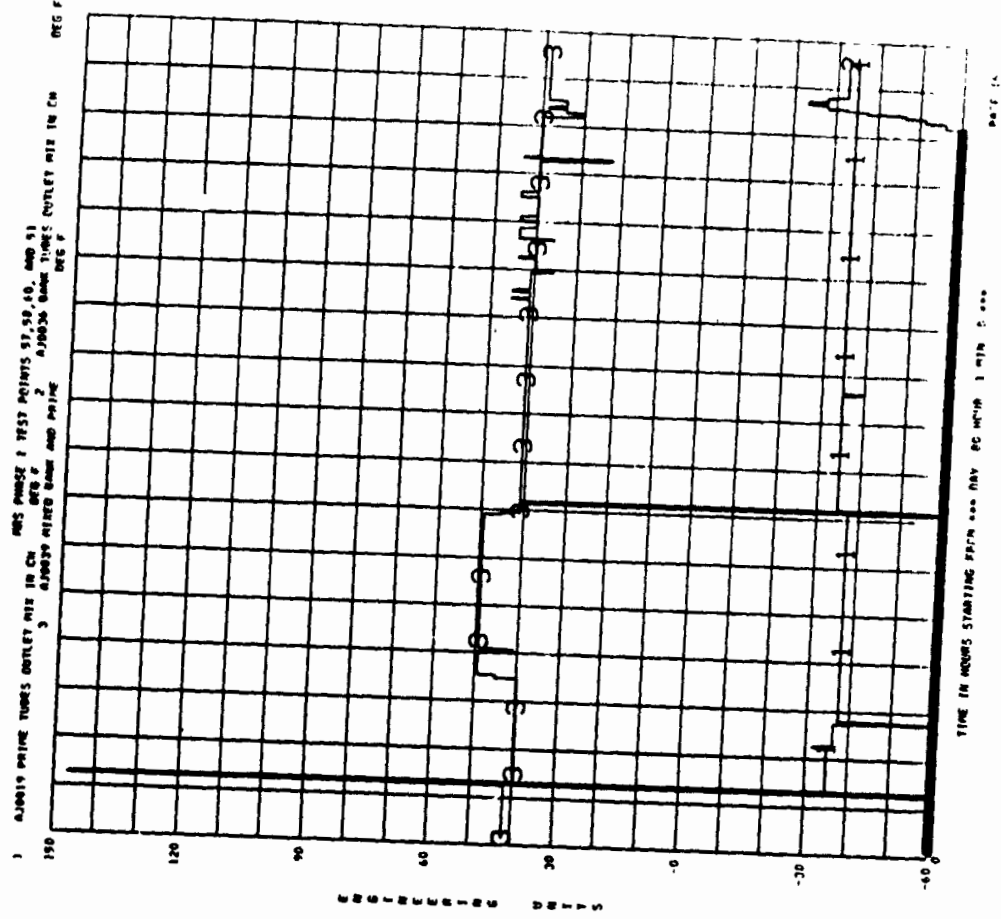
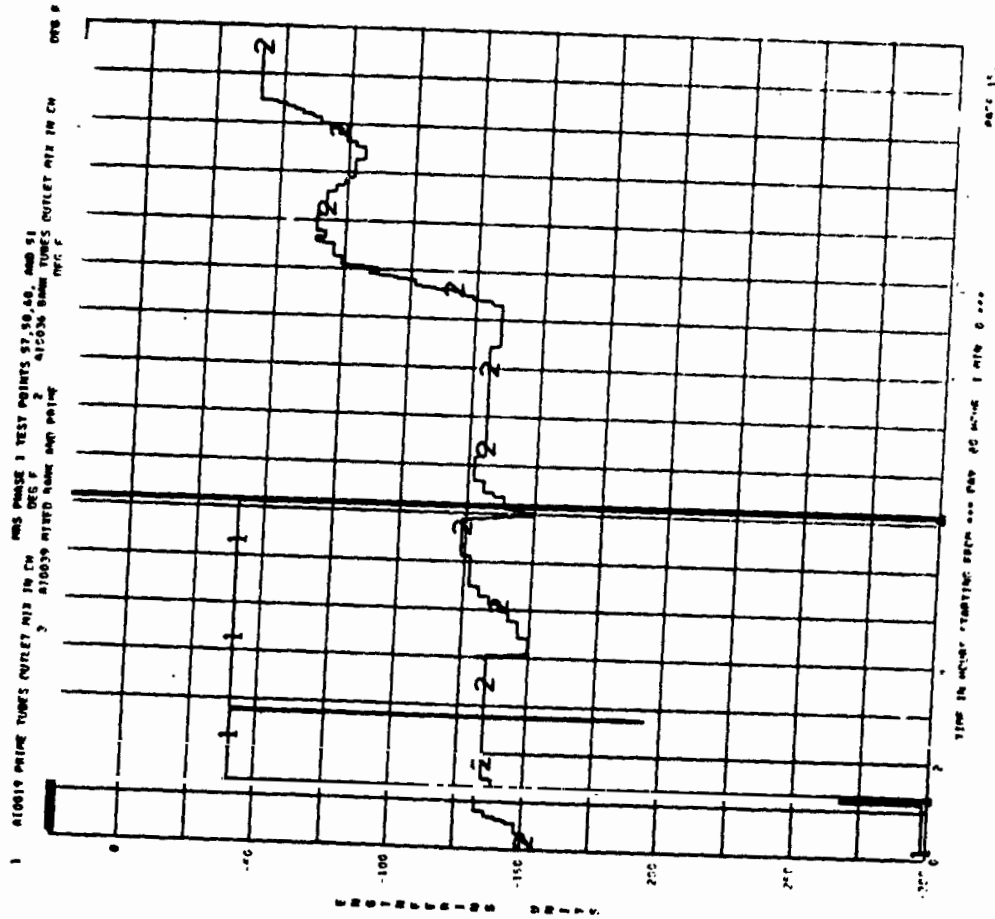


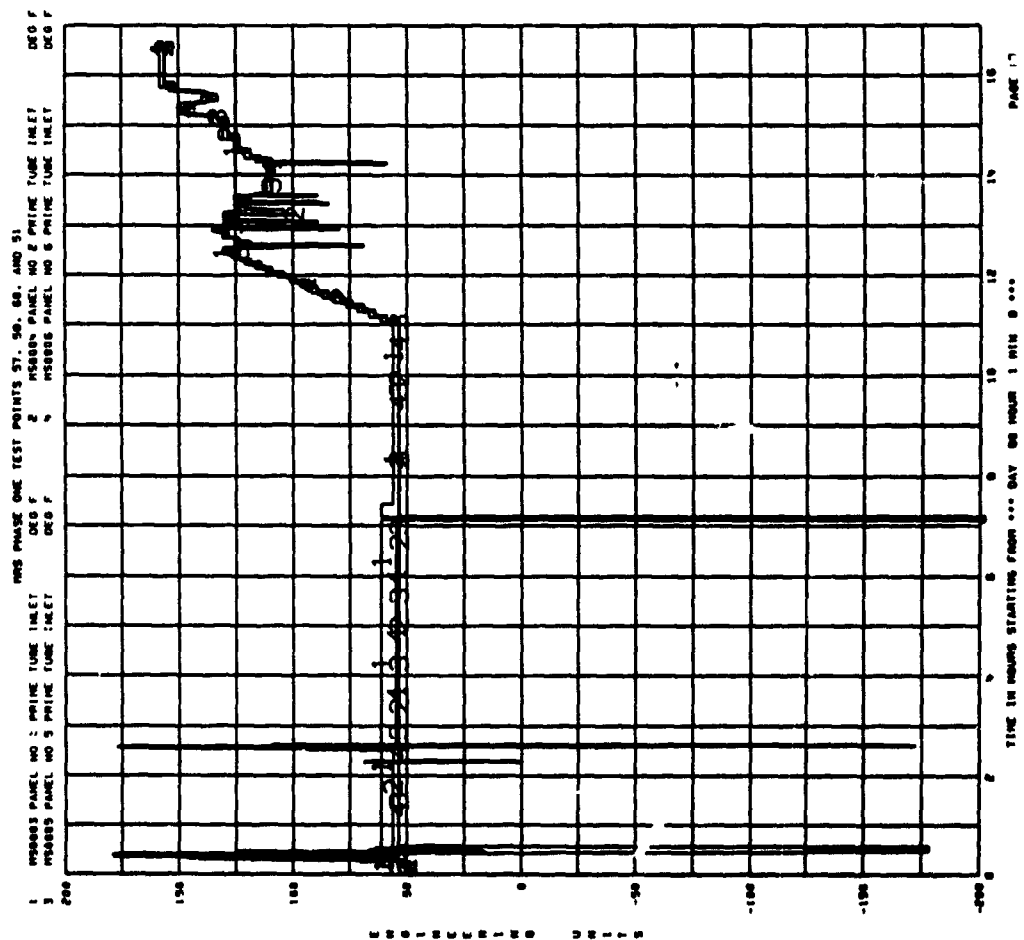
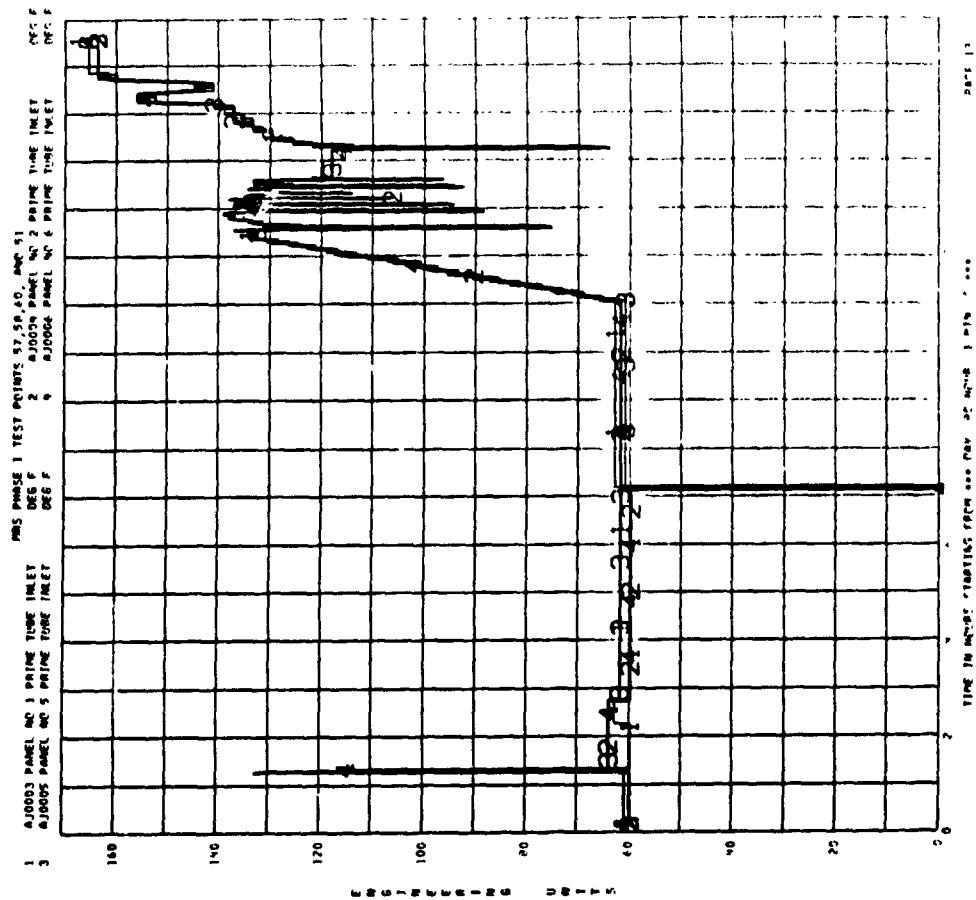
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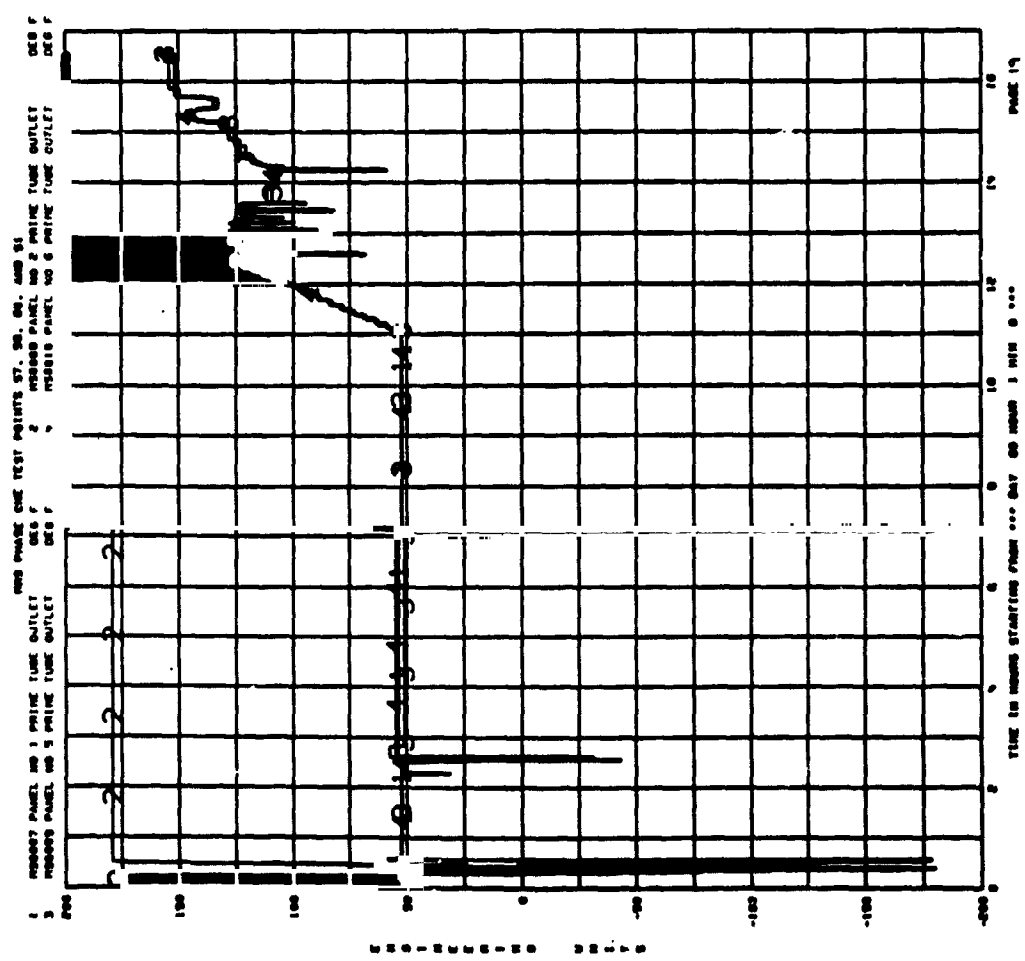
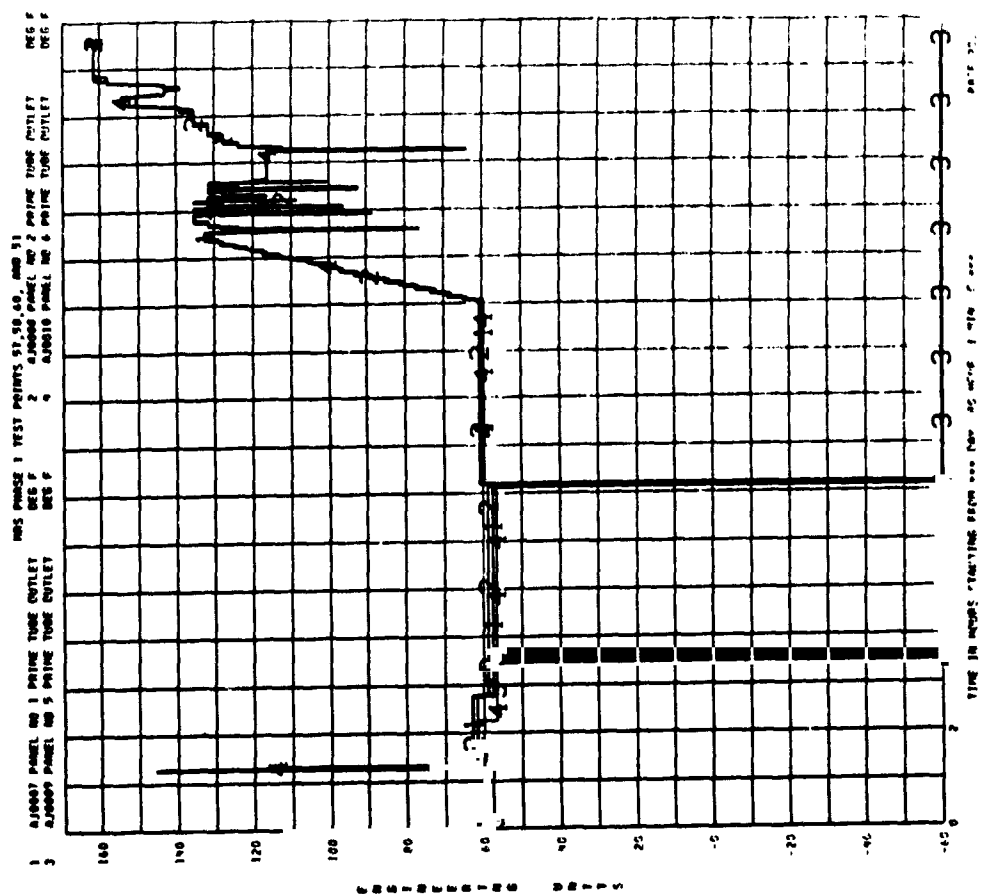
MRS PHASE 1 TEST POINTS 97, 98, 40, AND 51  
 1 4J0001 DAM SYSTEM INLET  
 DEG P



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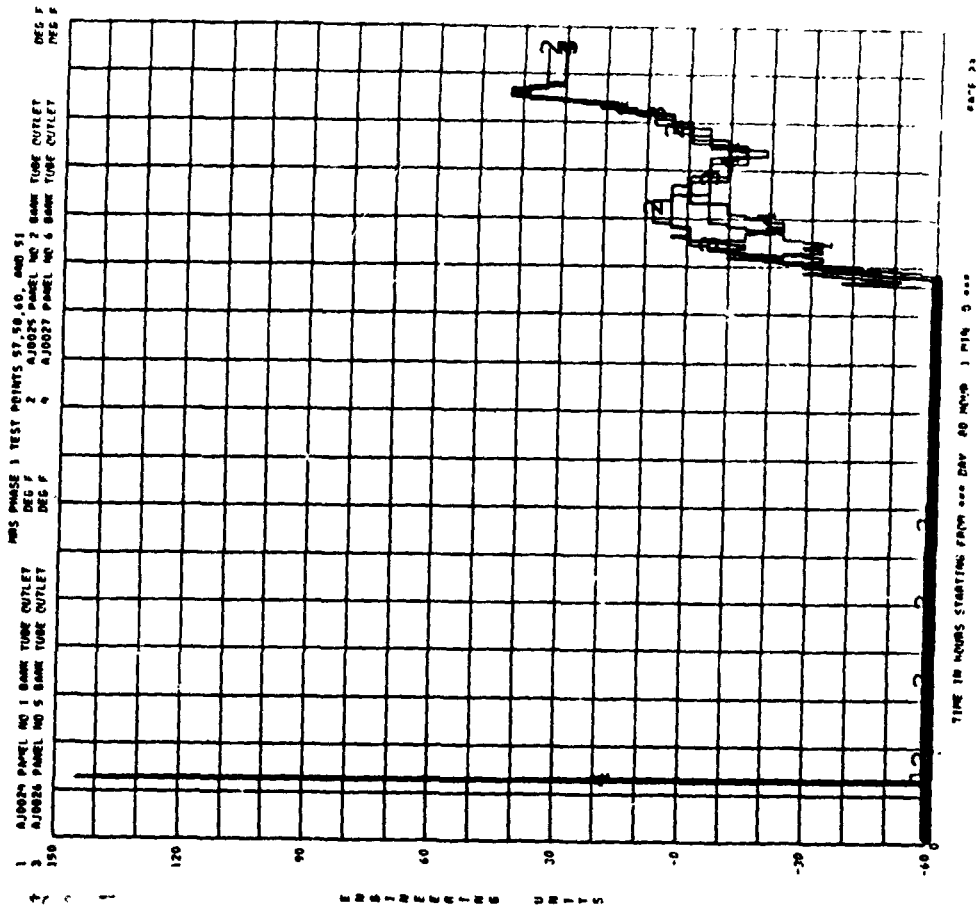
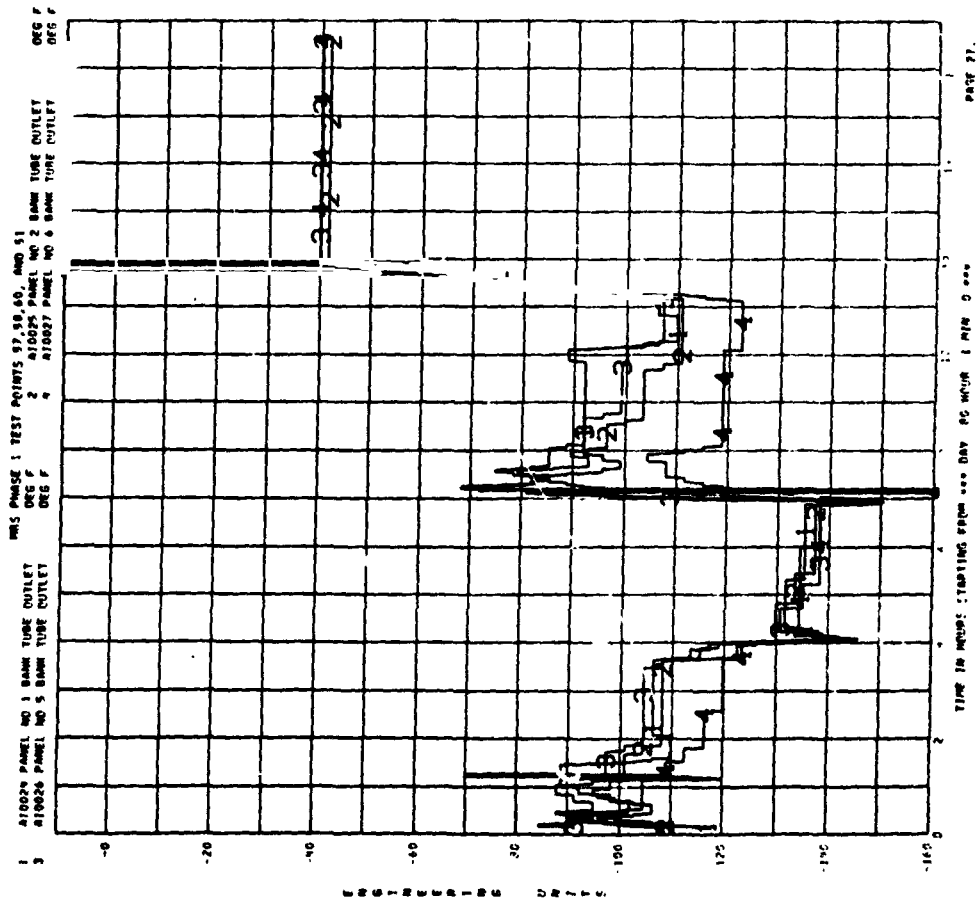


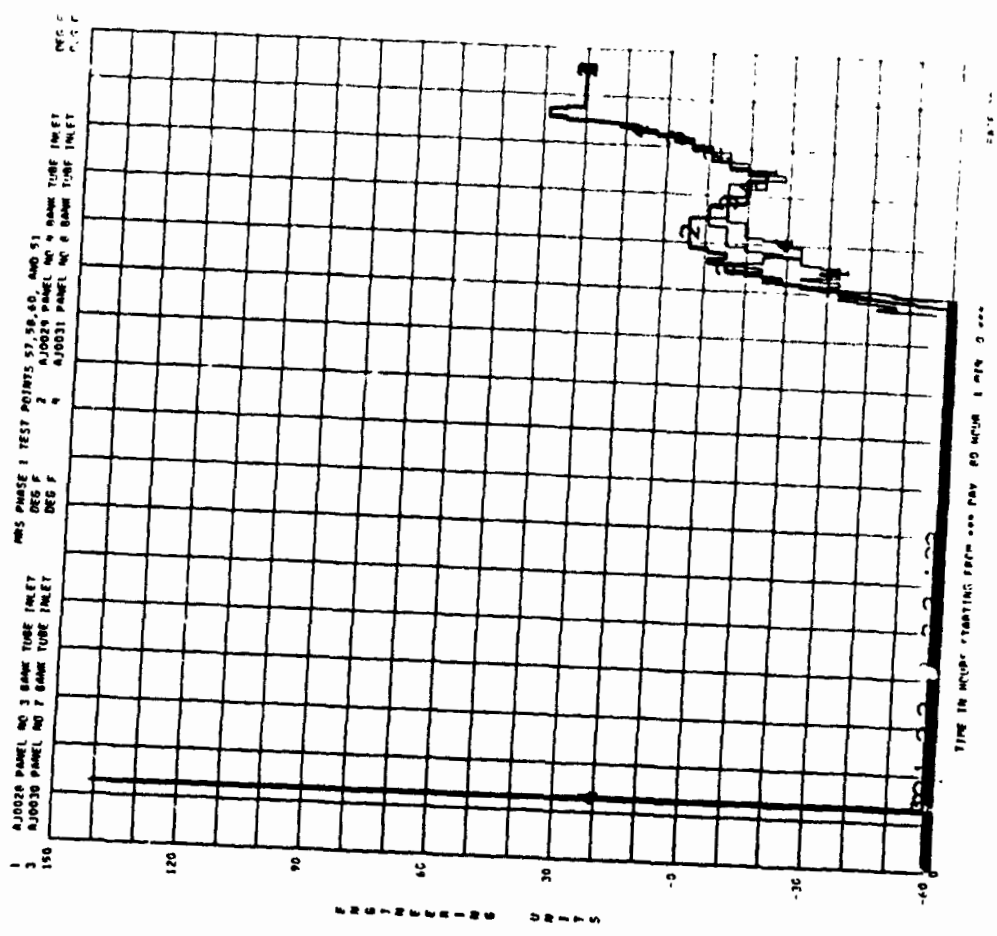
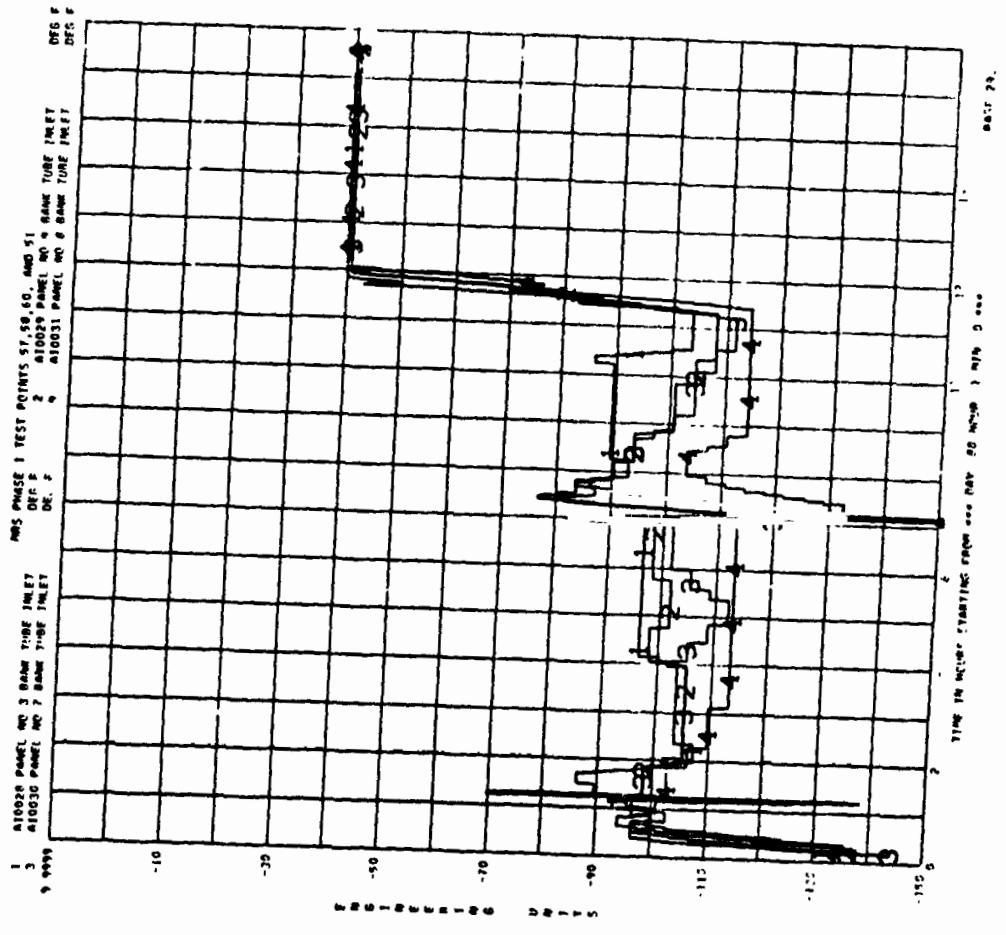


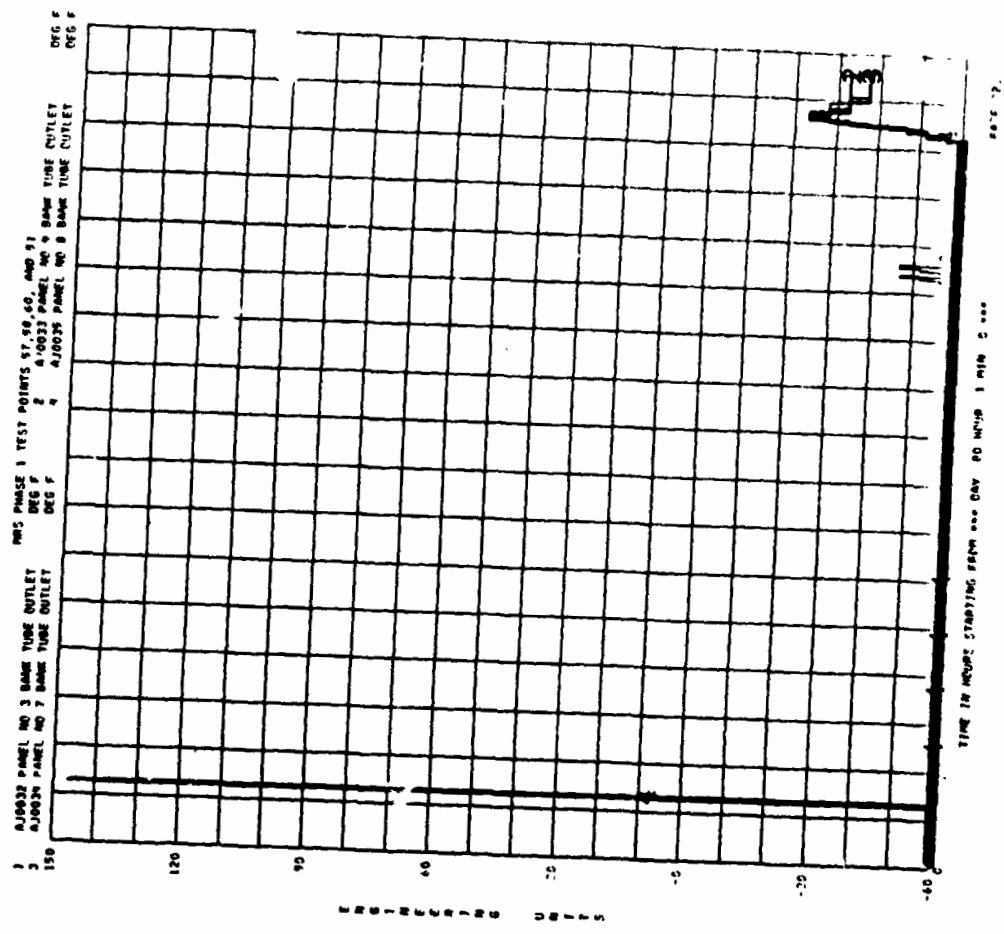
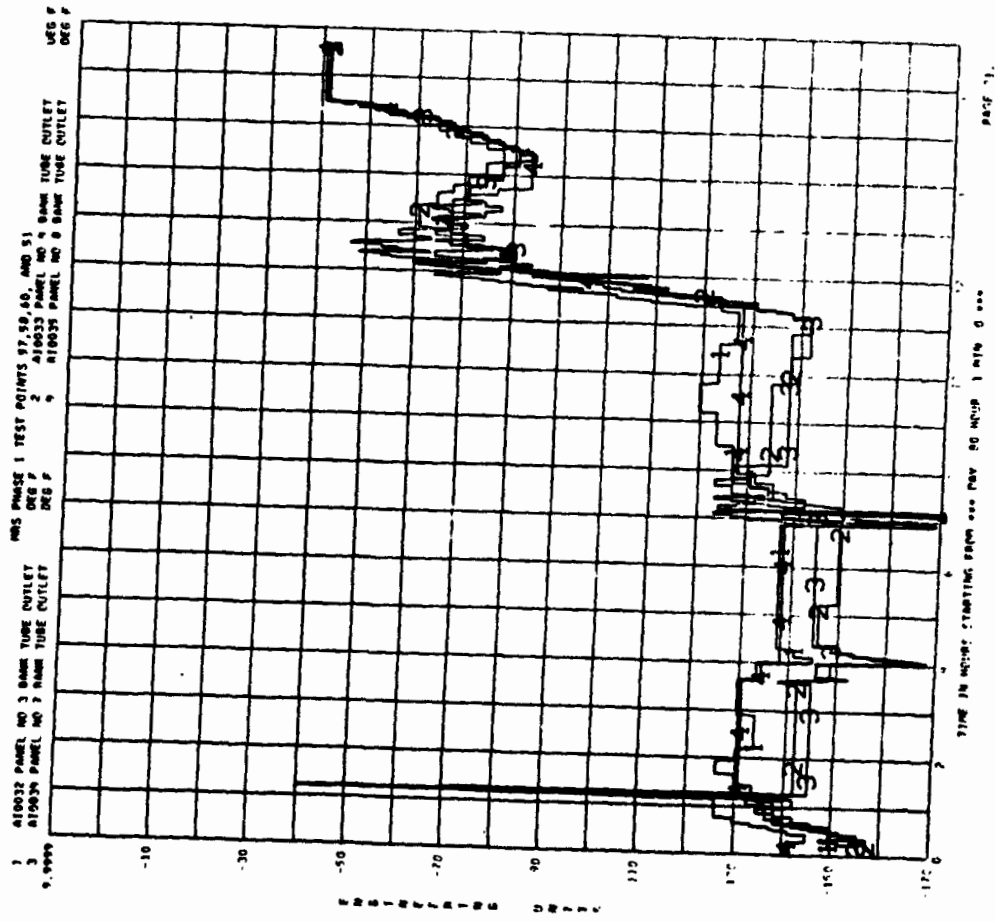


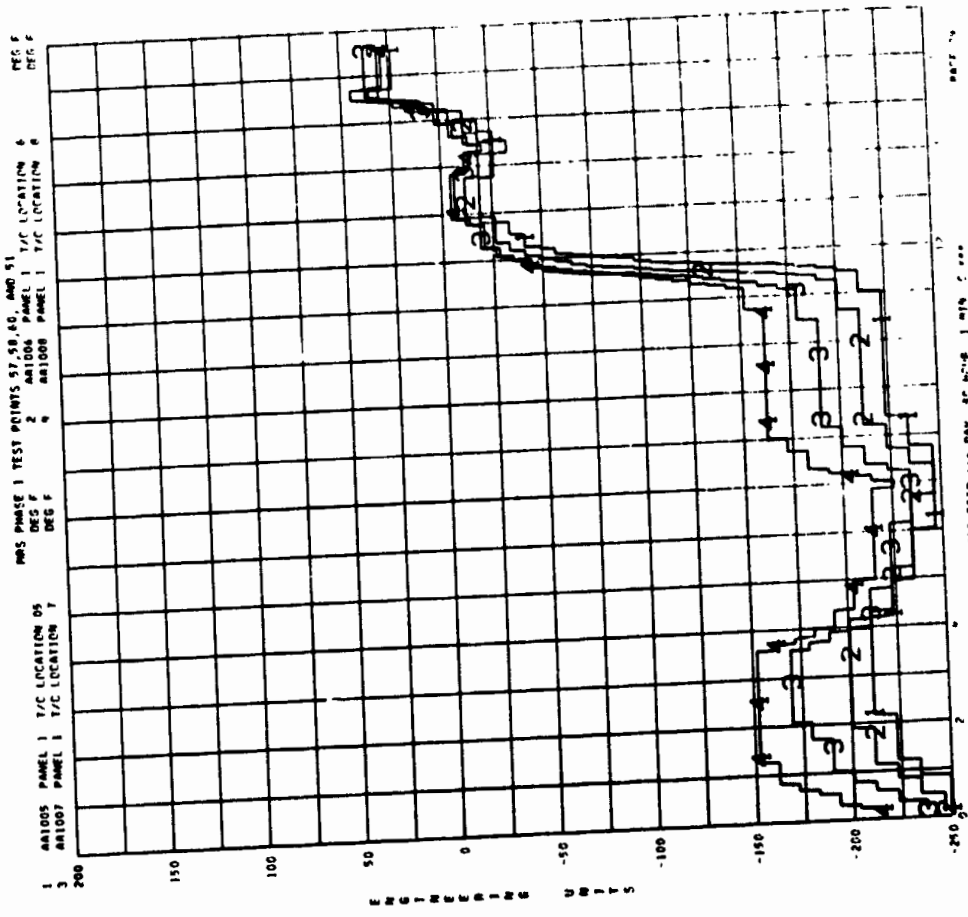
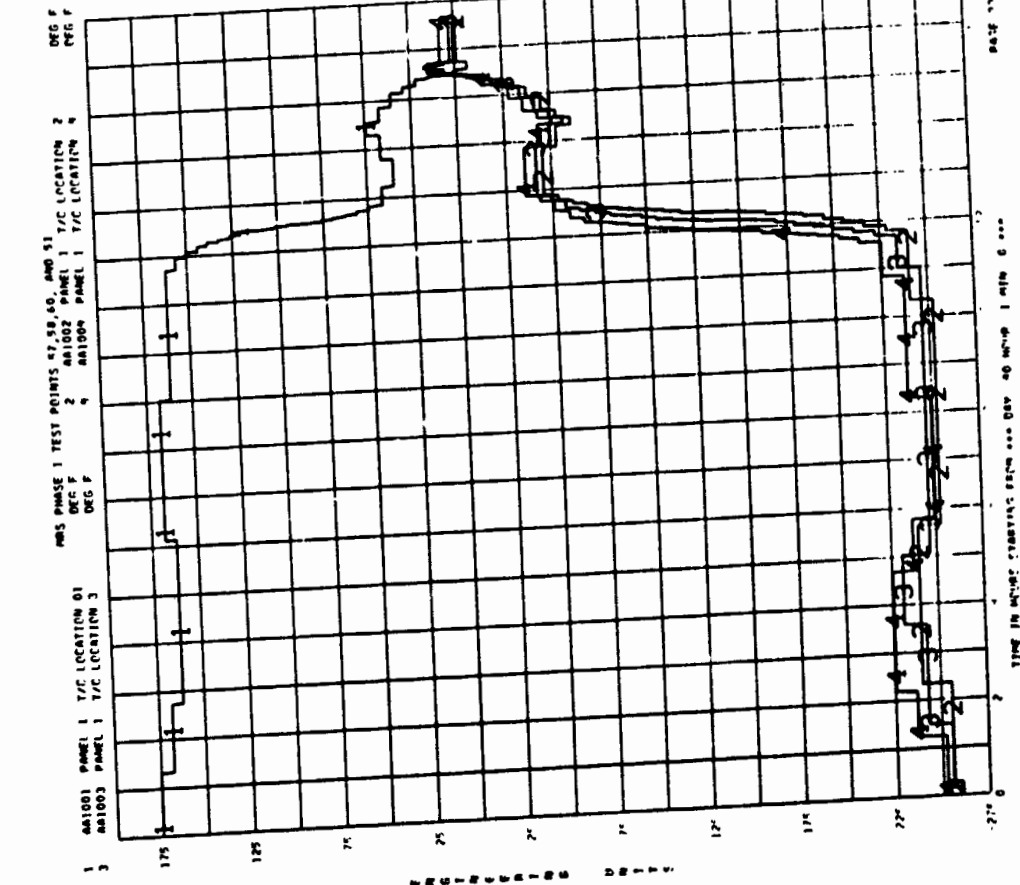


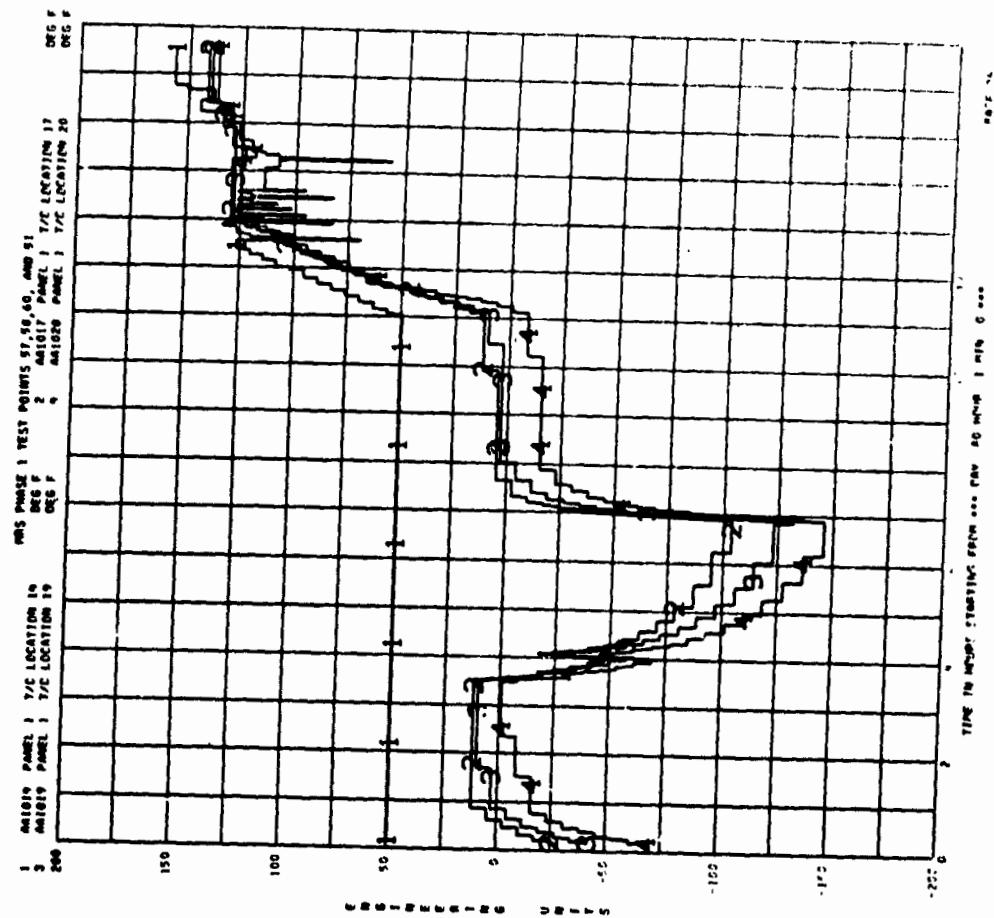
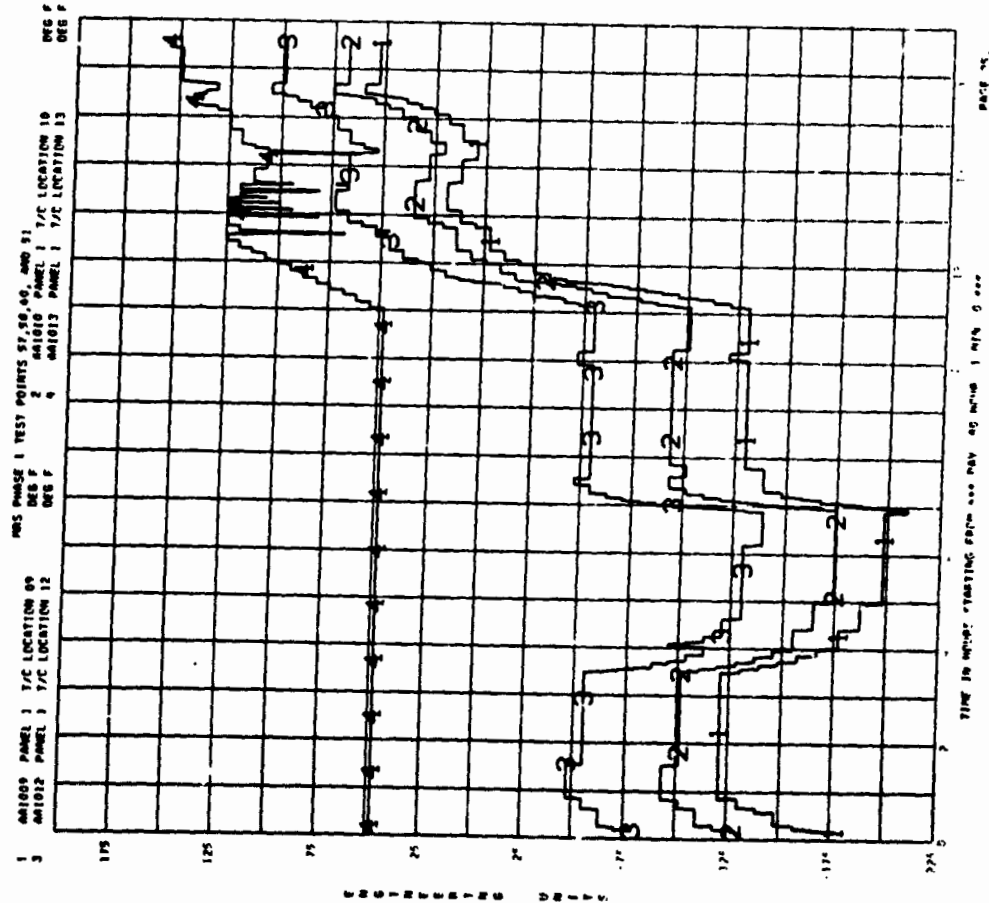




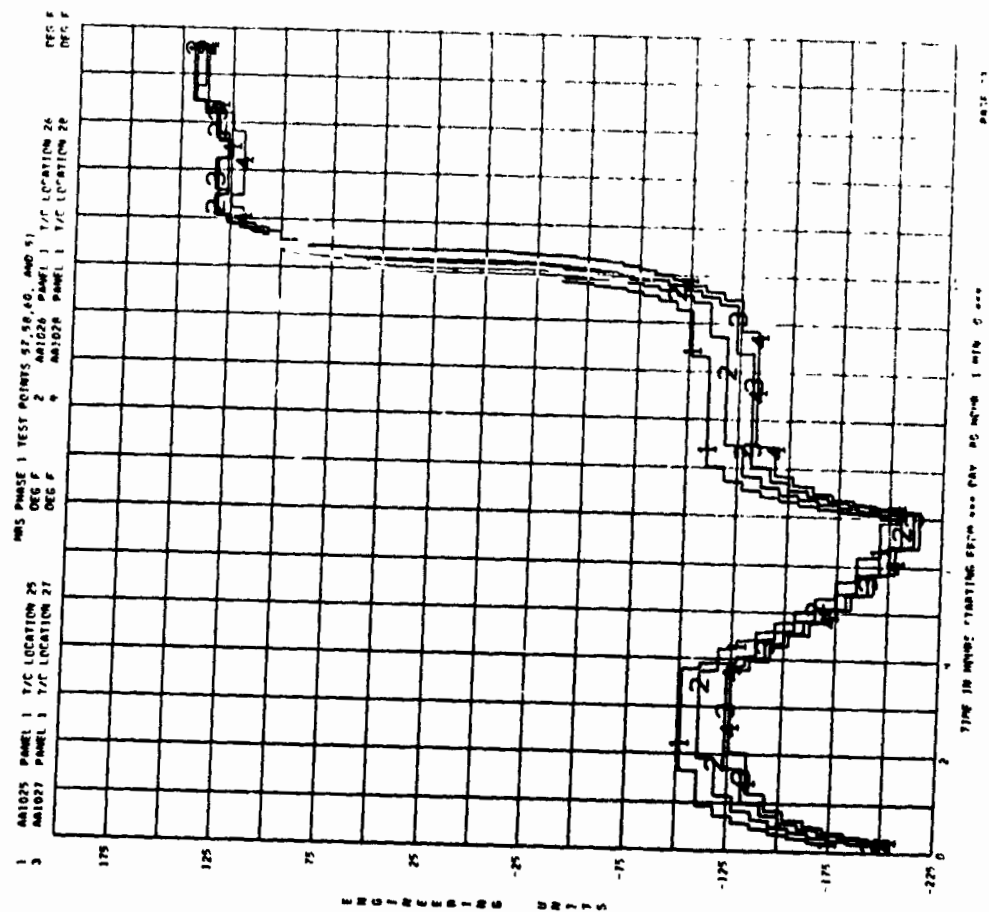
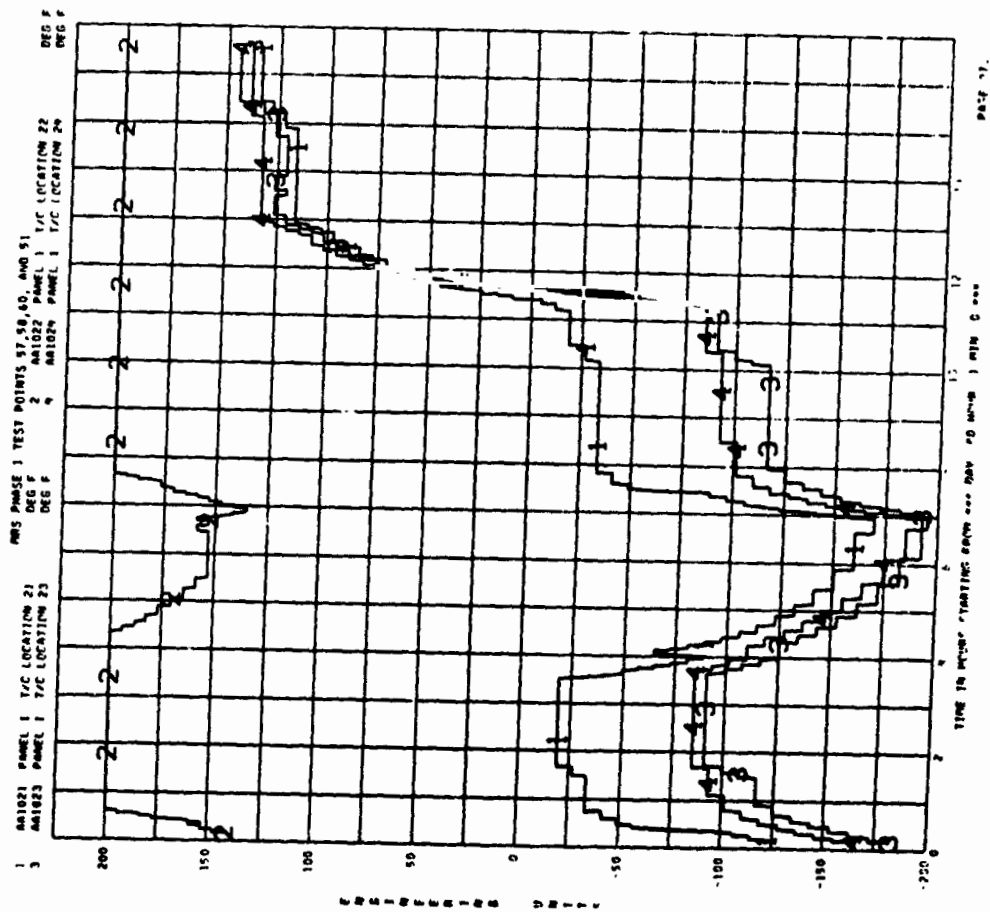


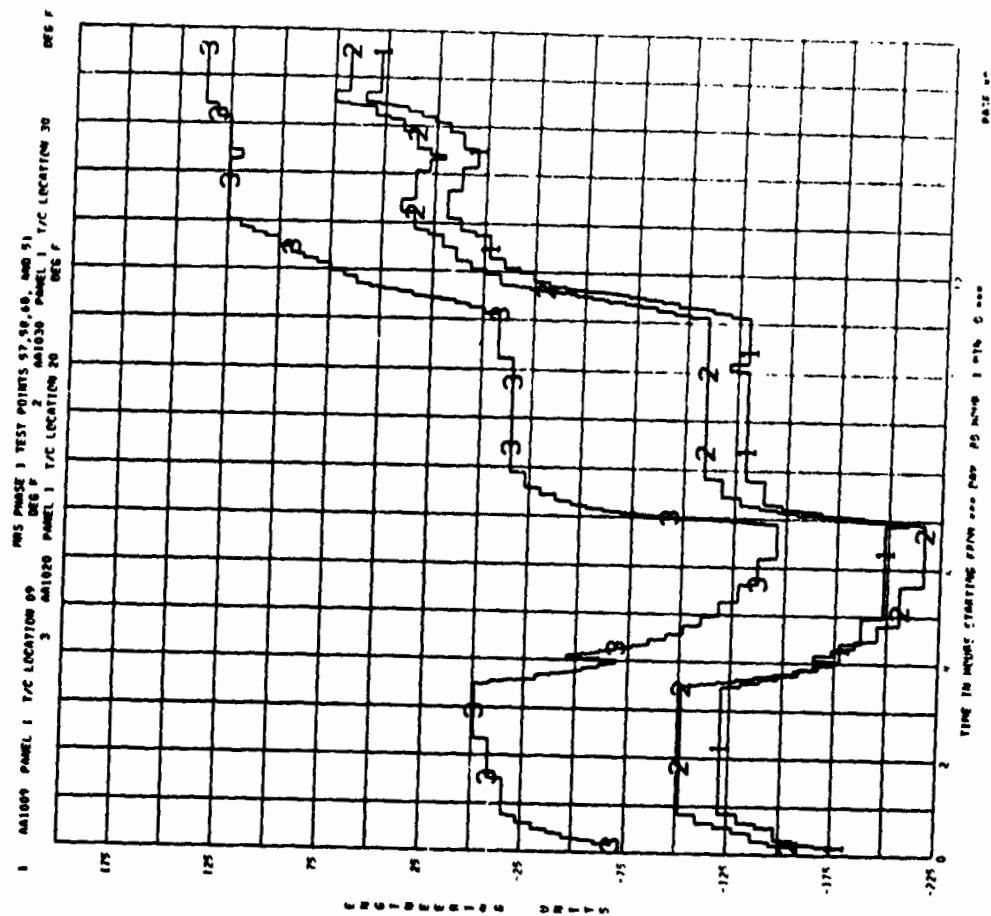
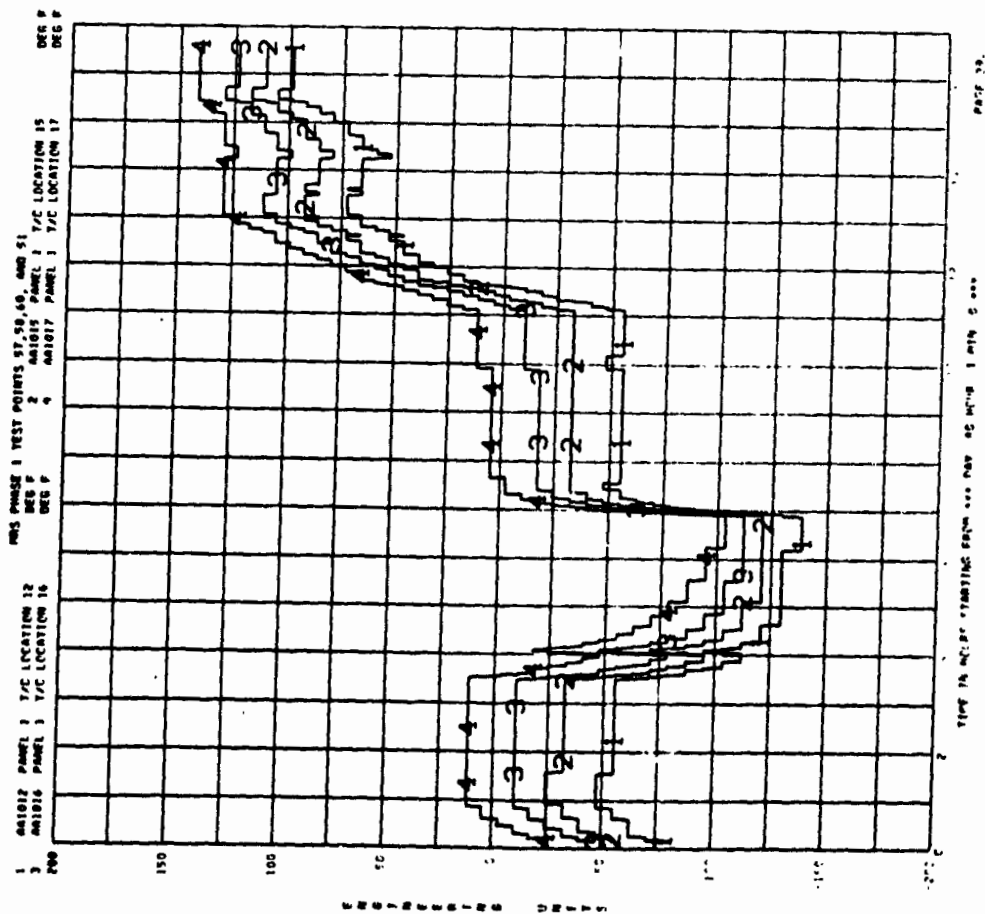




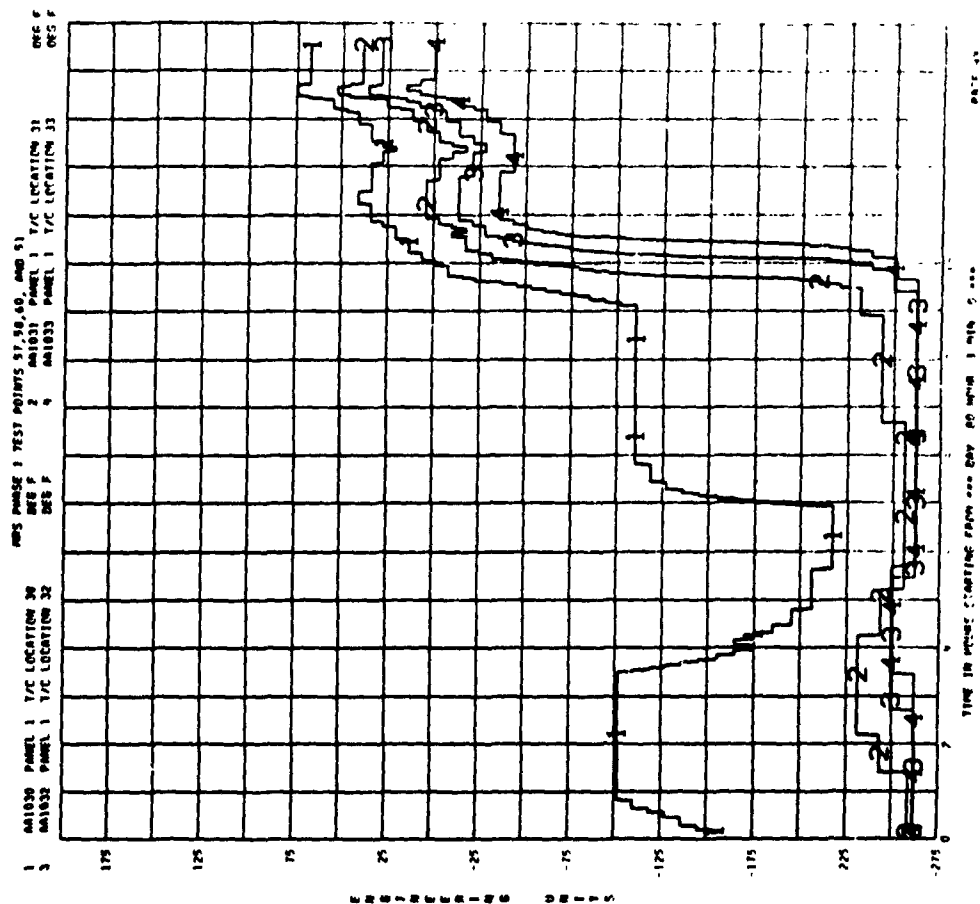
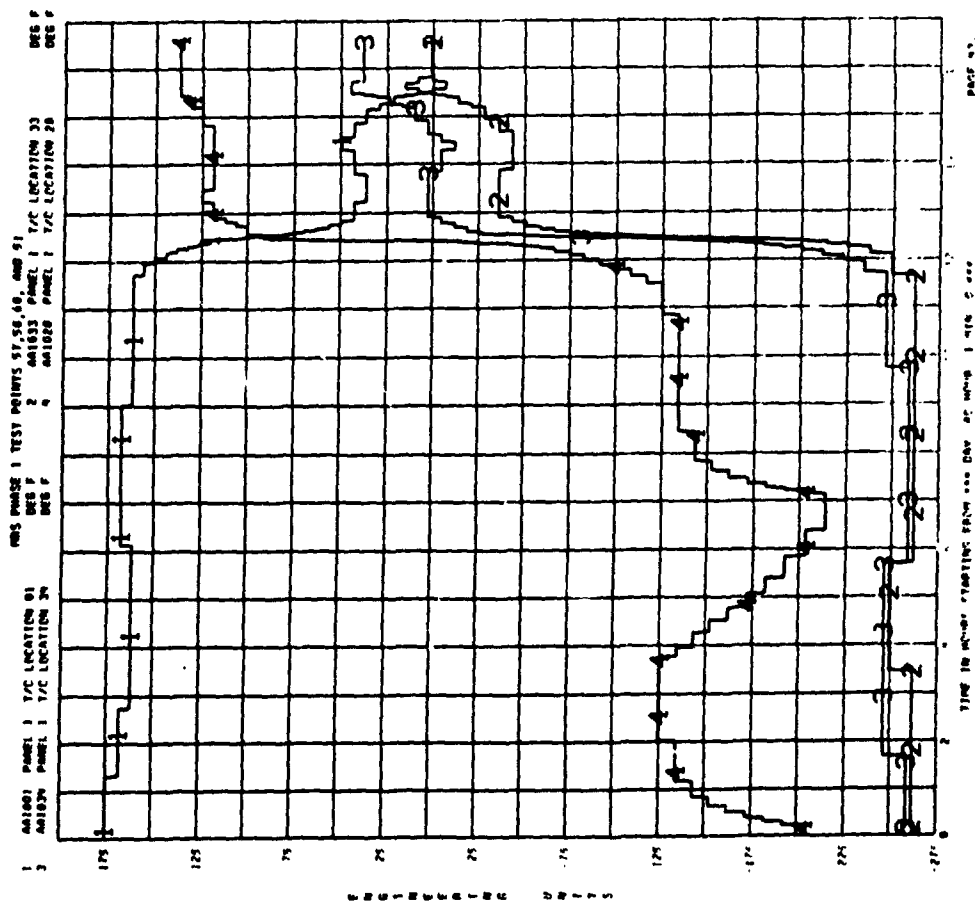


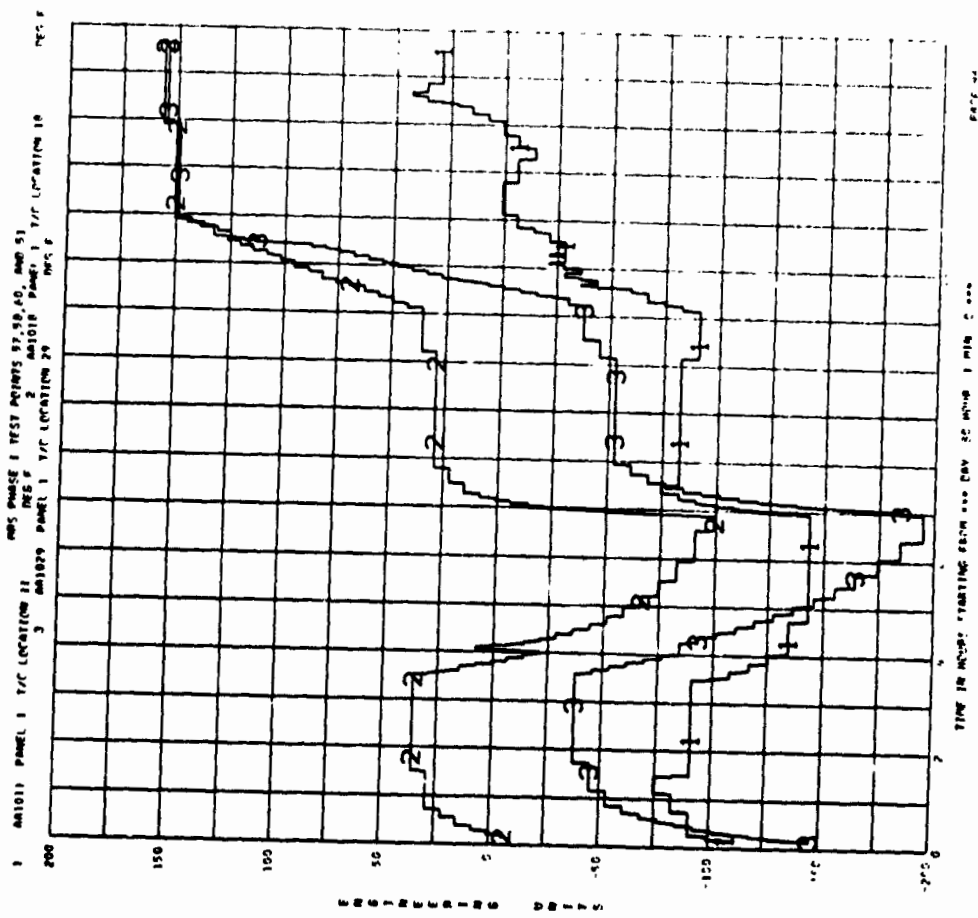
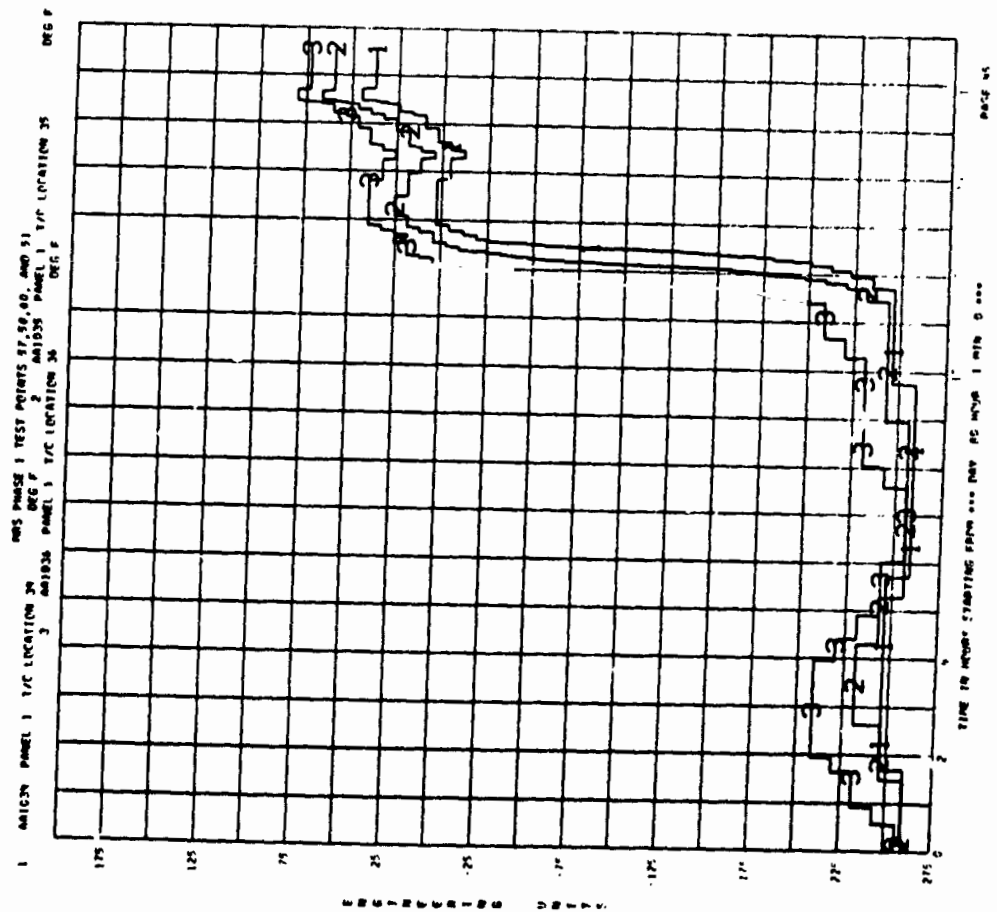




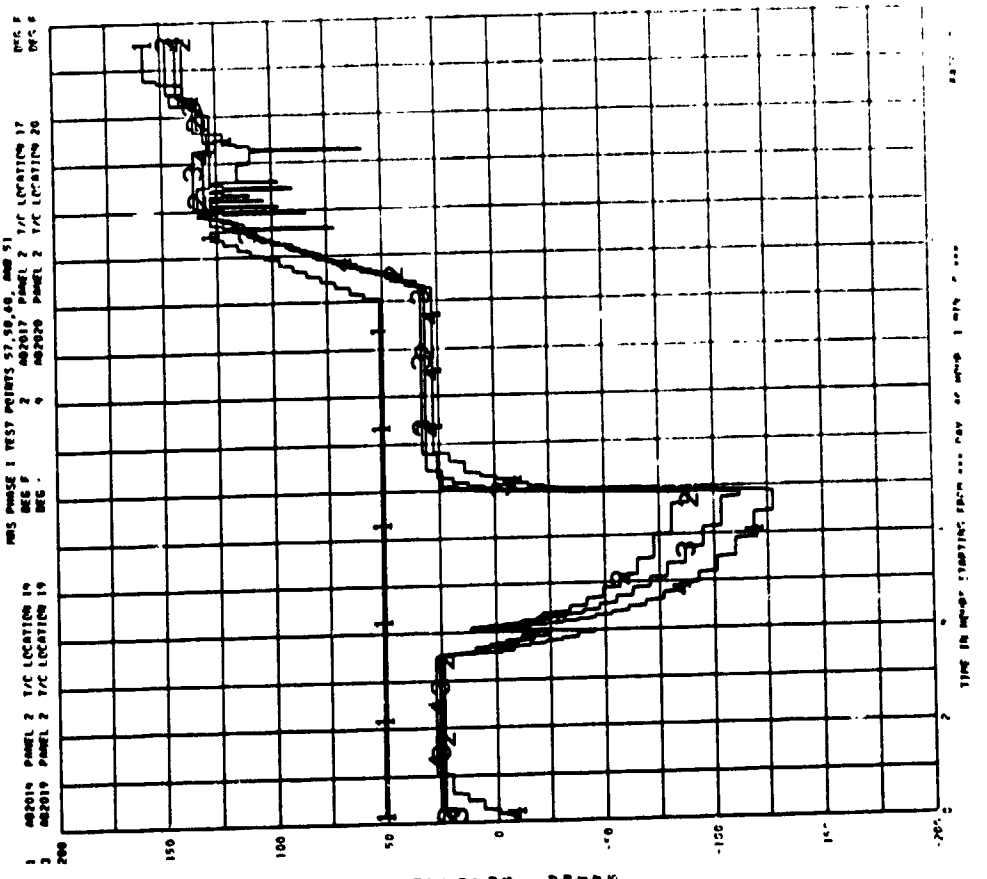
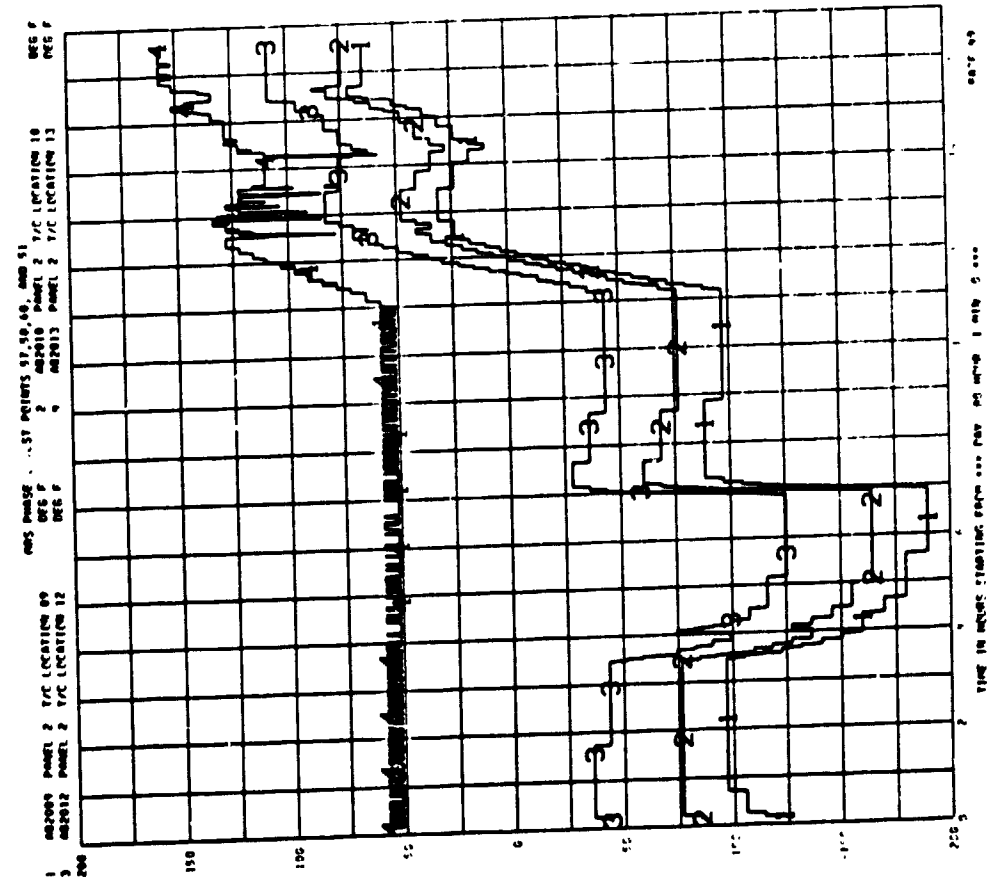






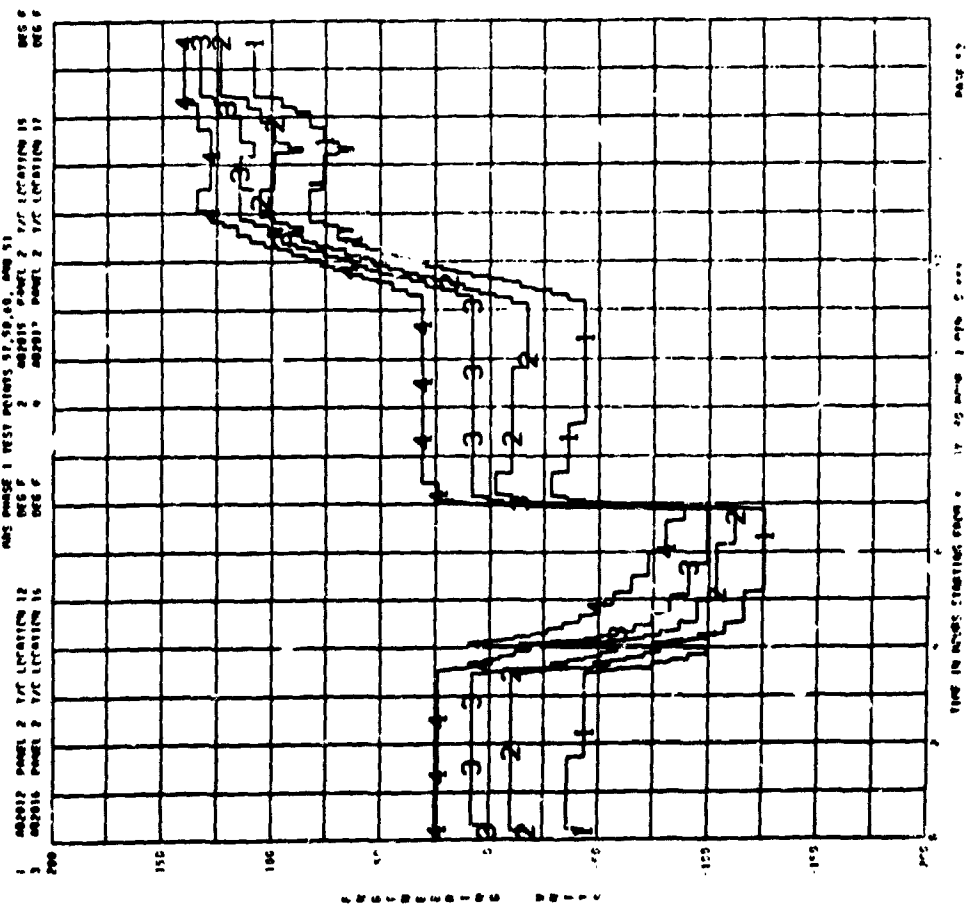
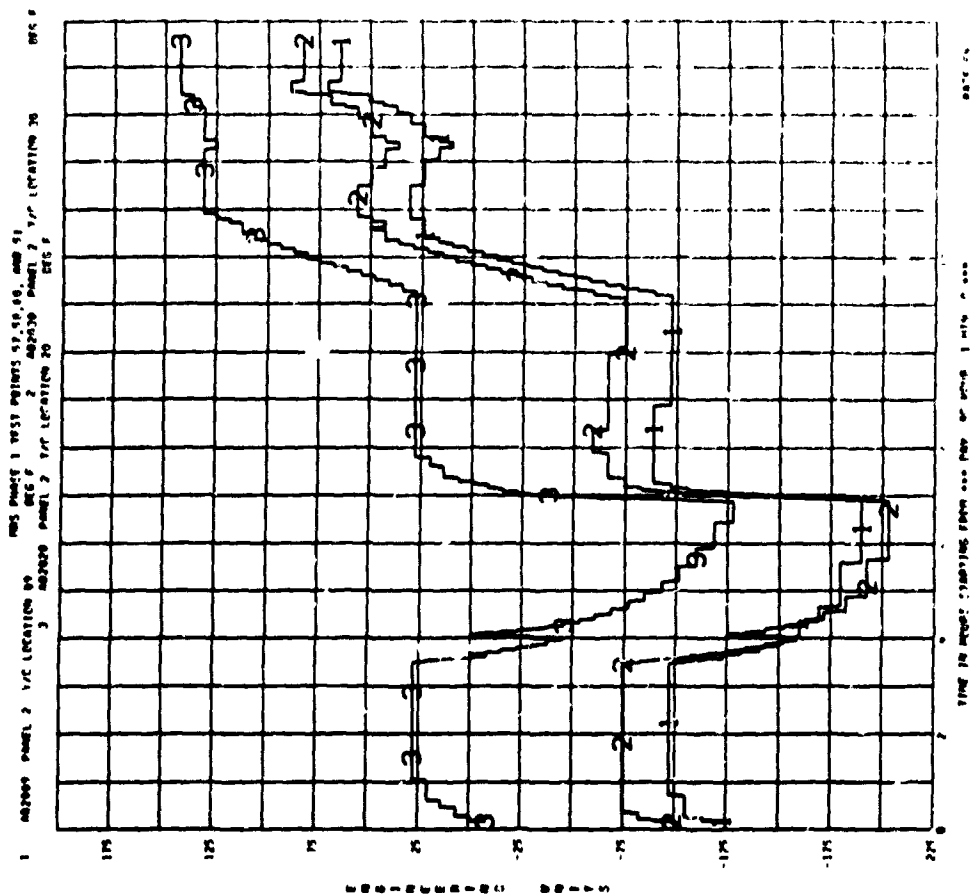




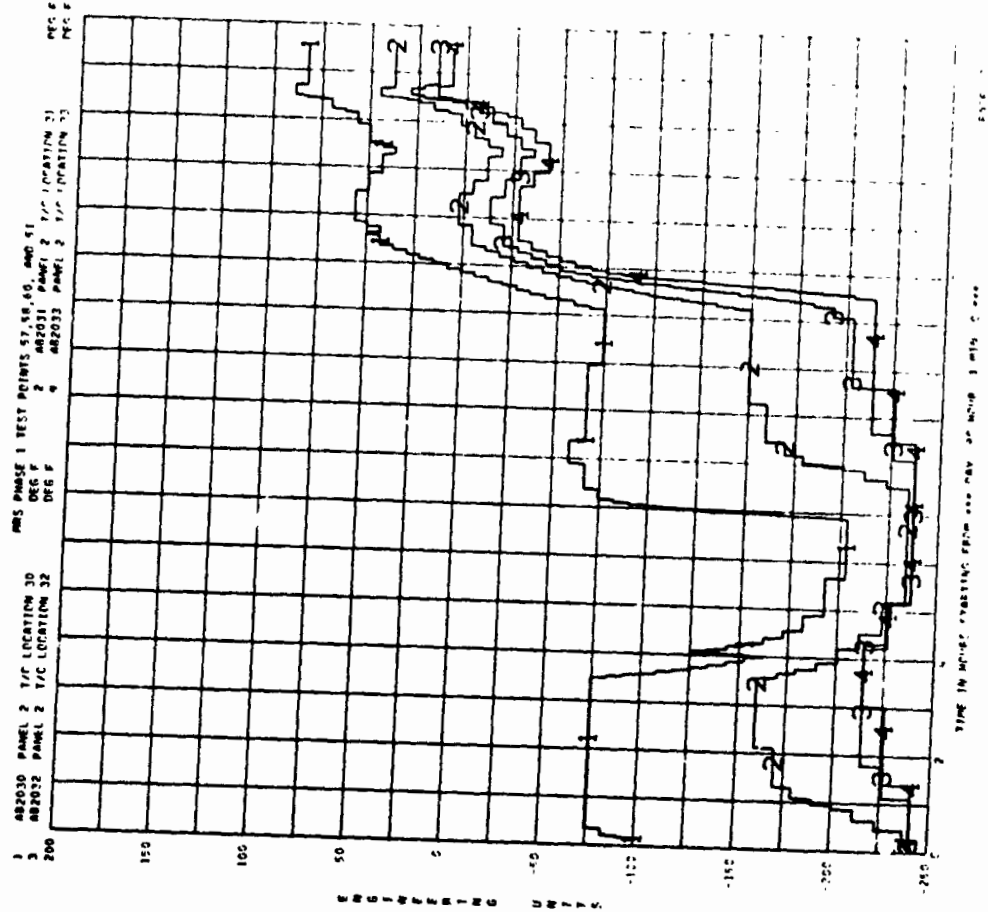
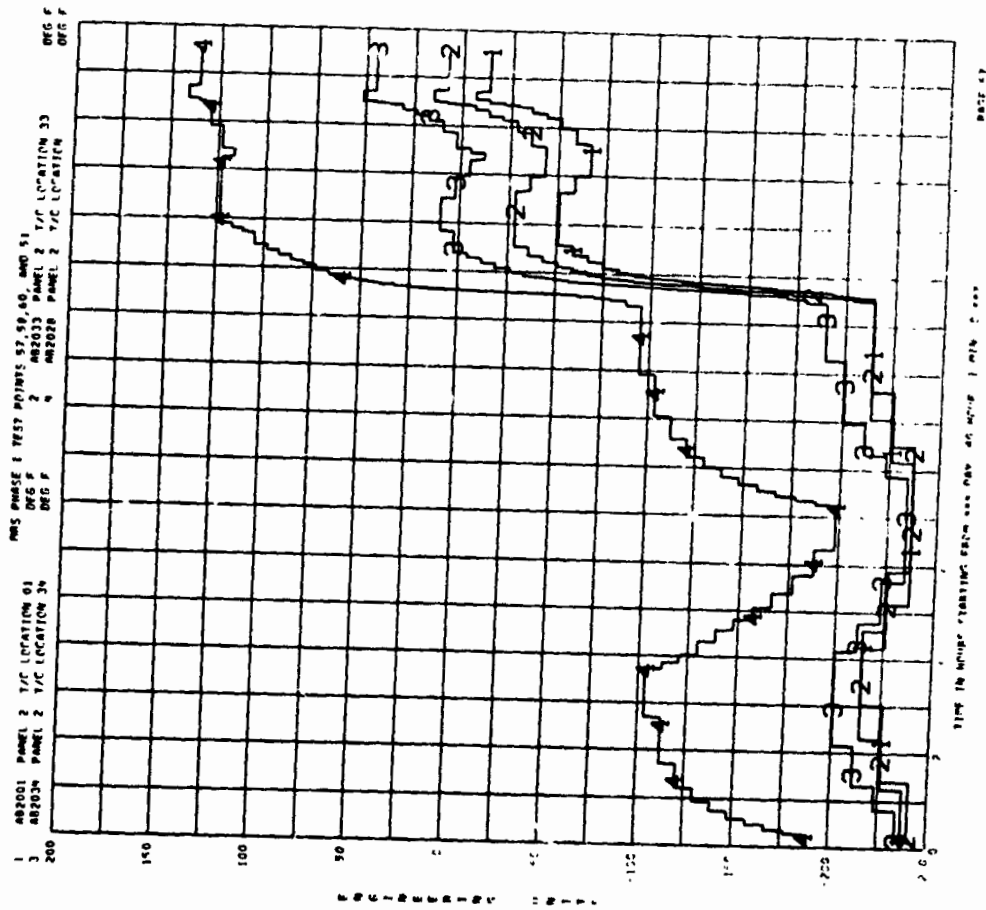




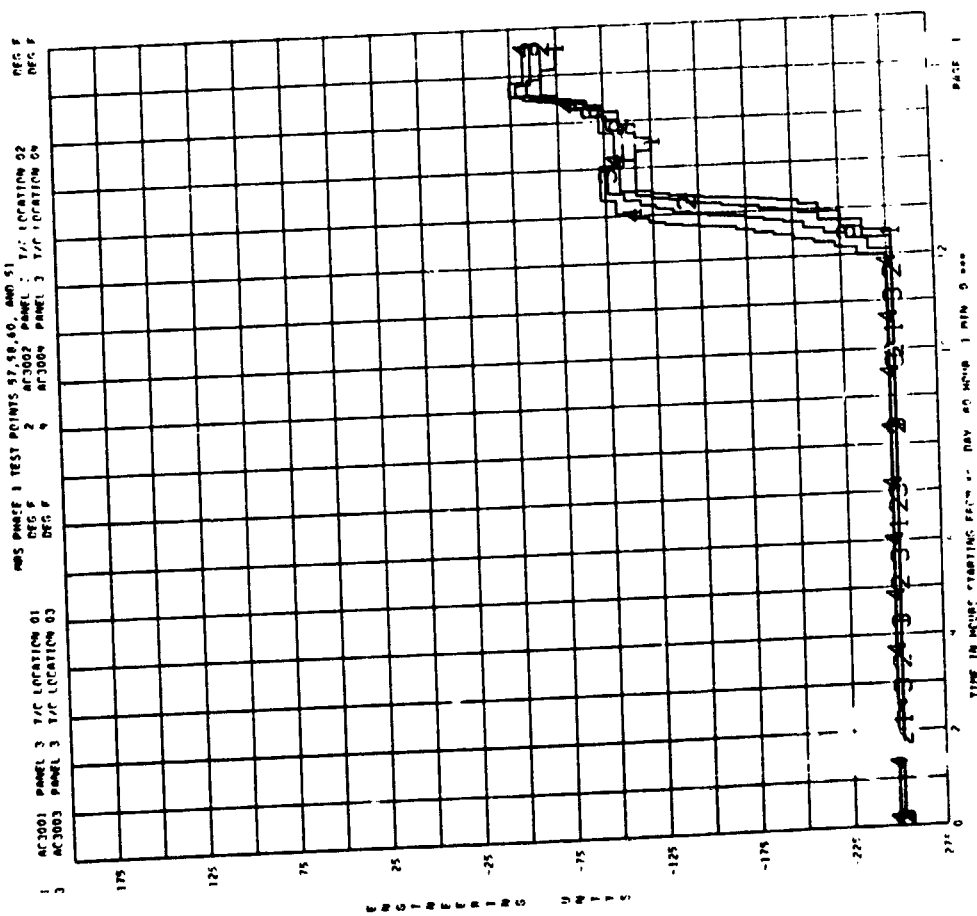
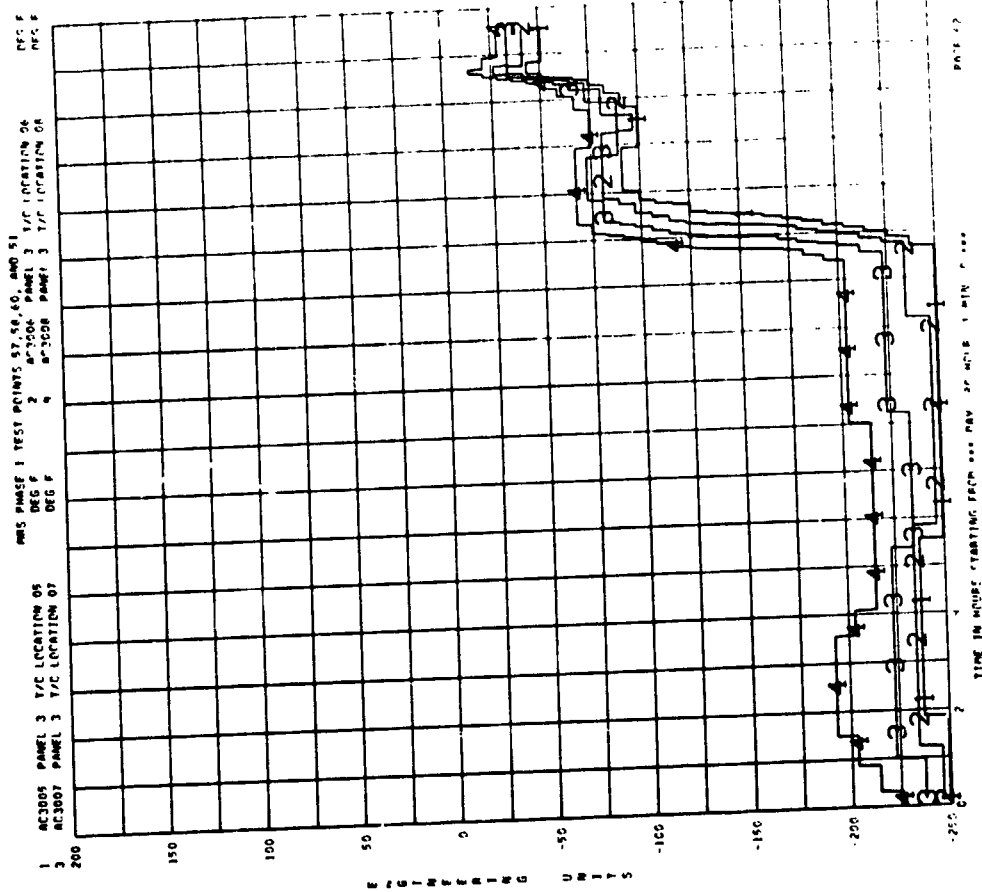




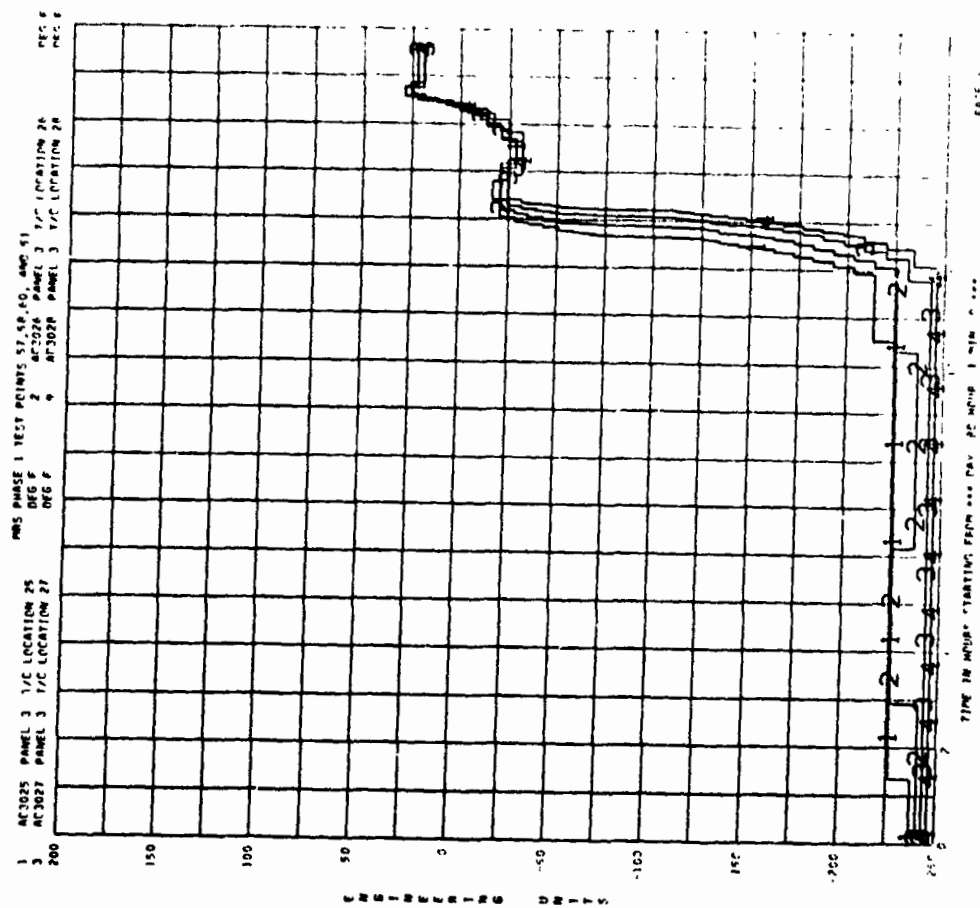
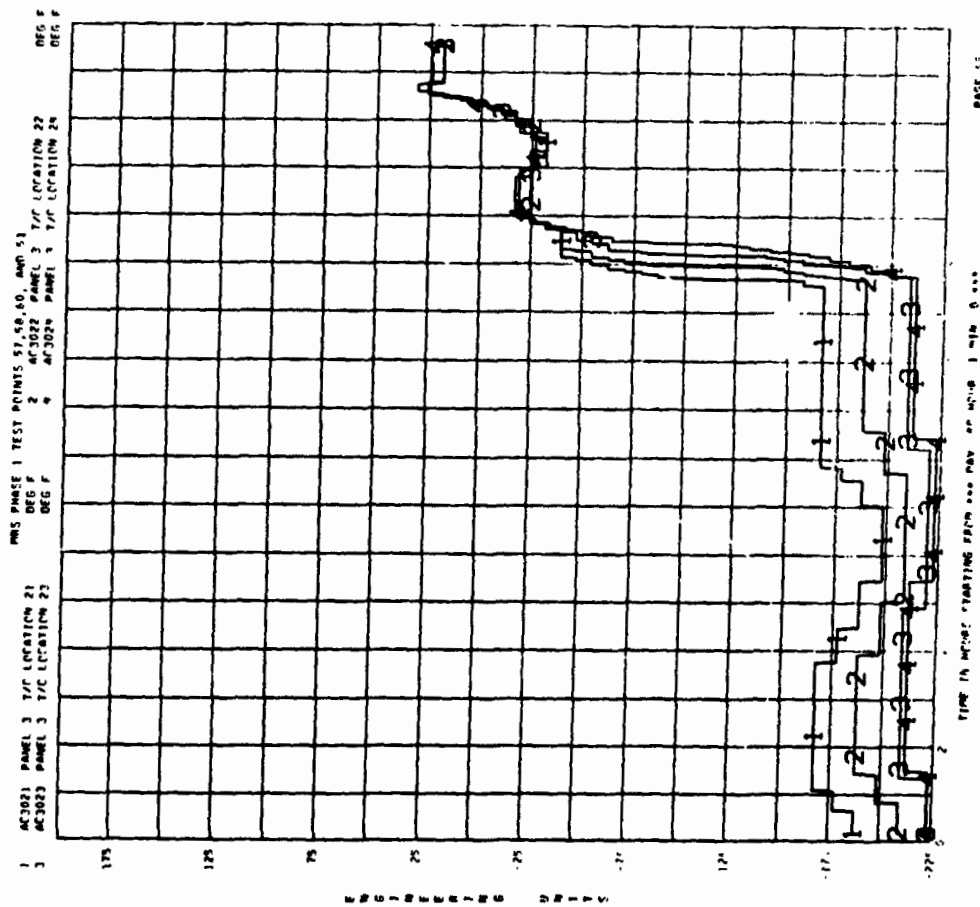


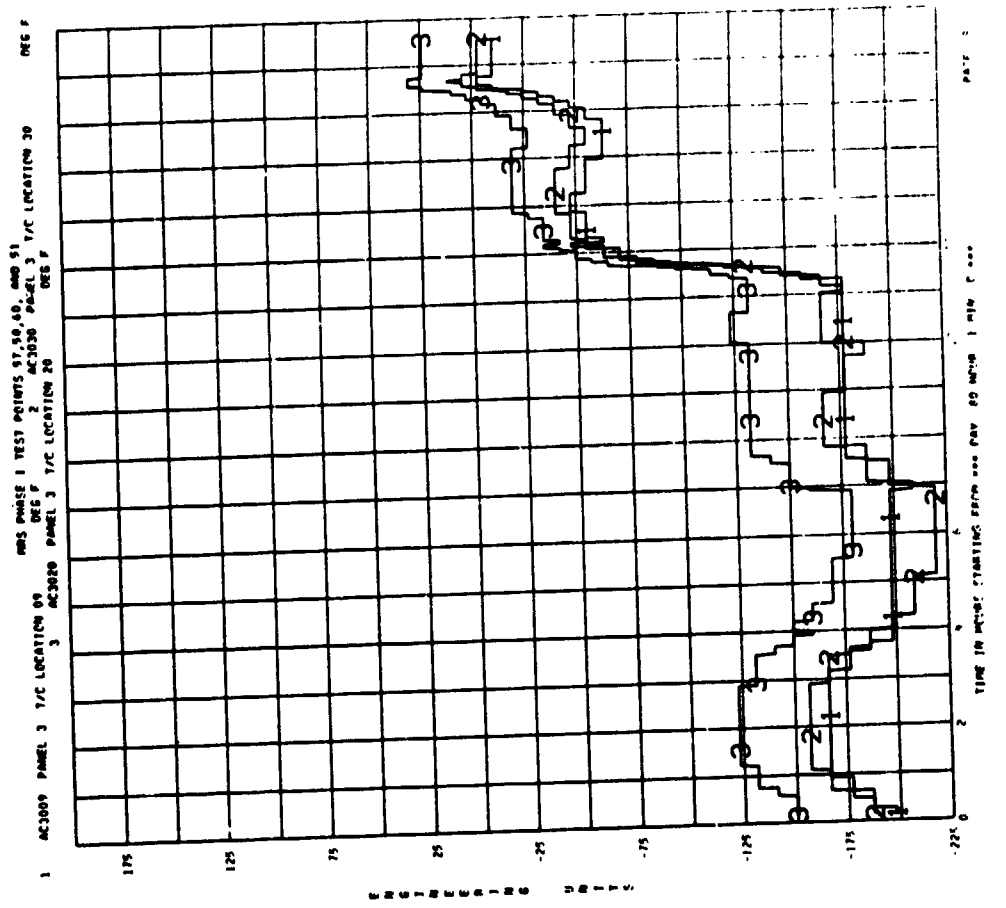
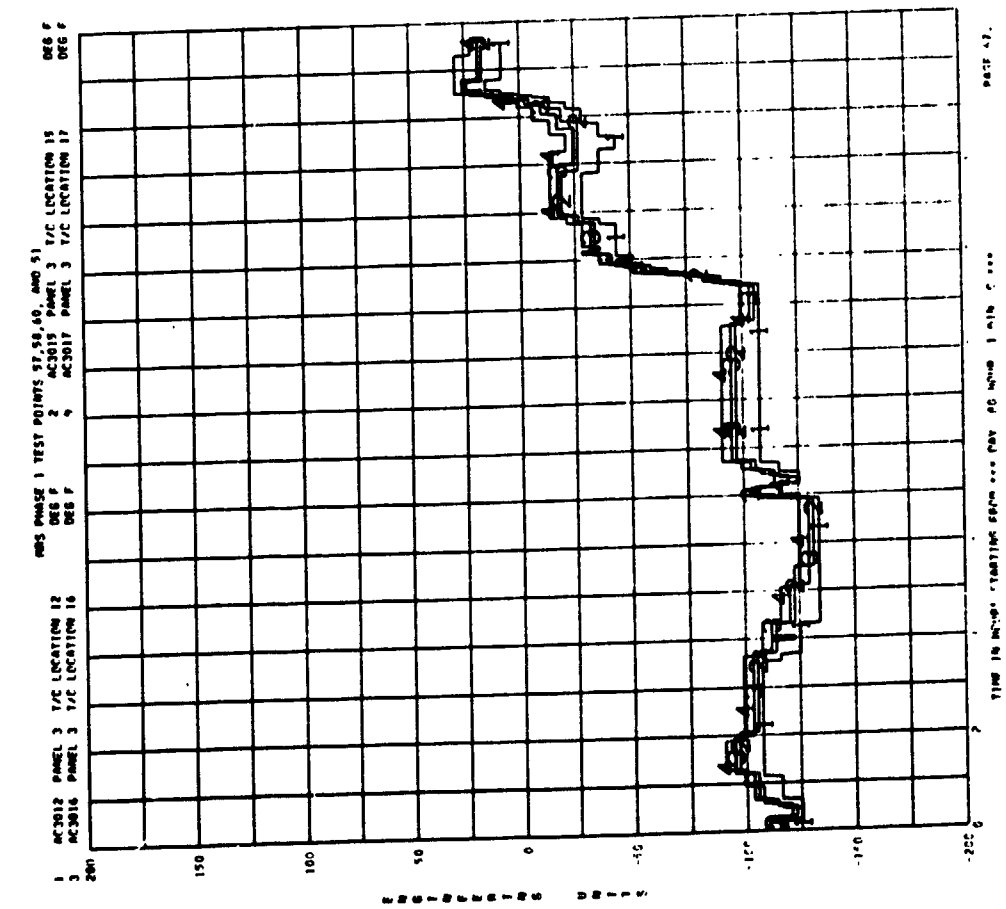




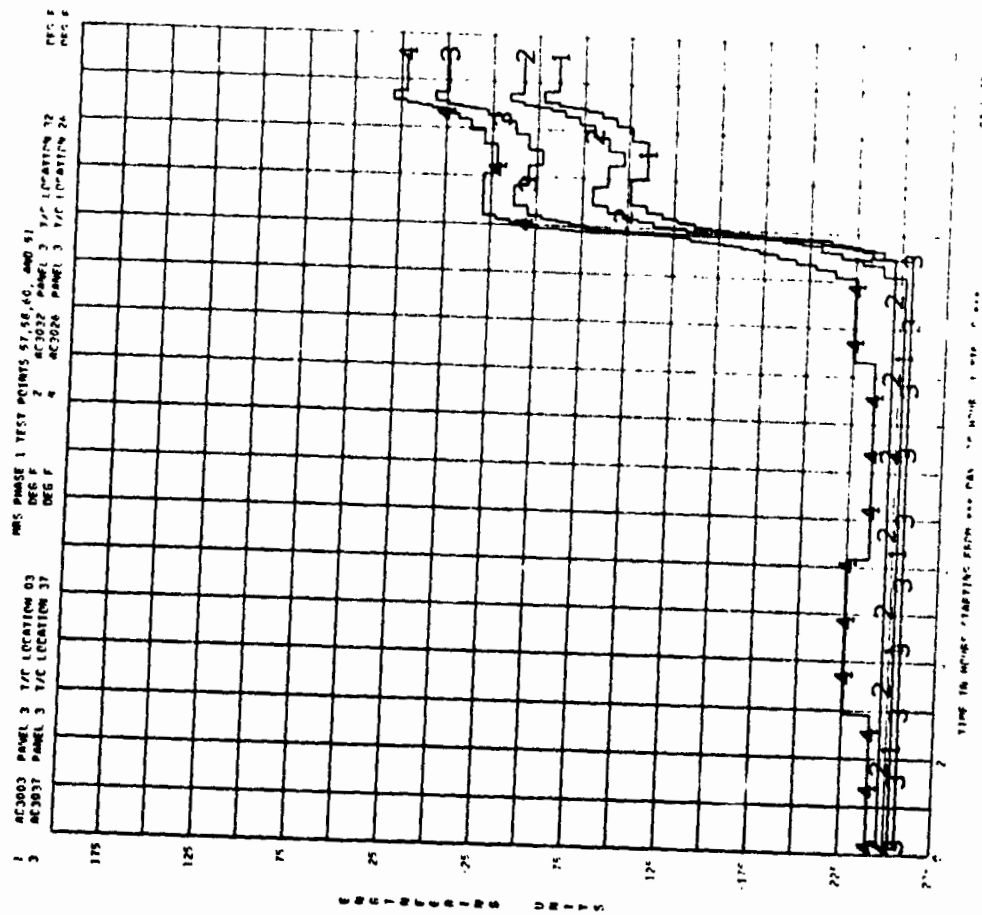
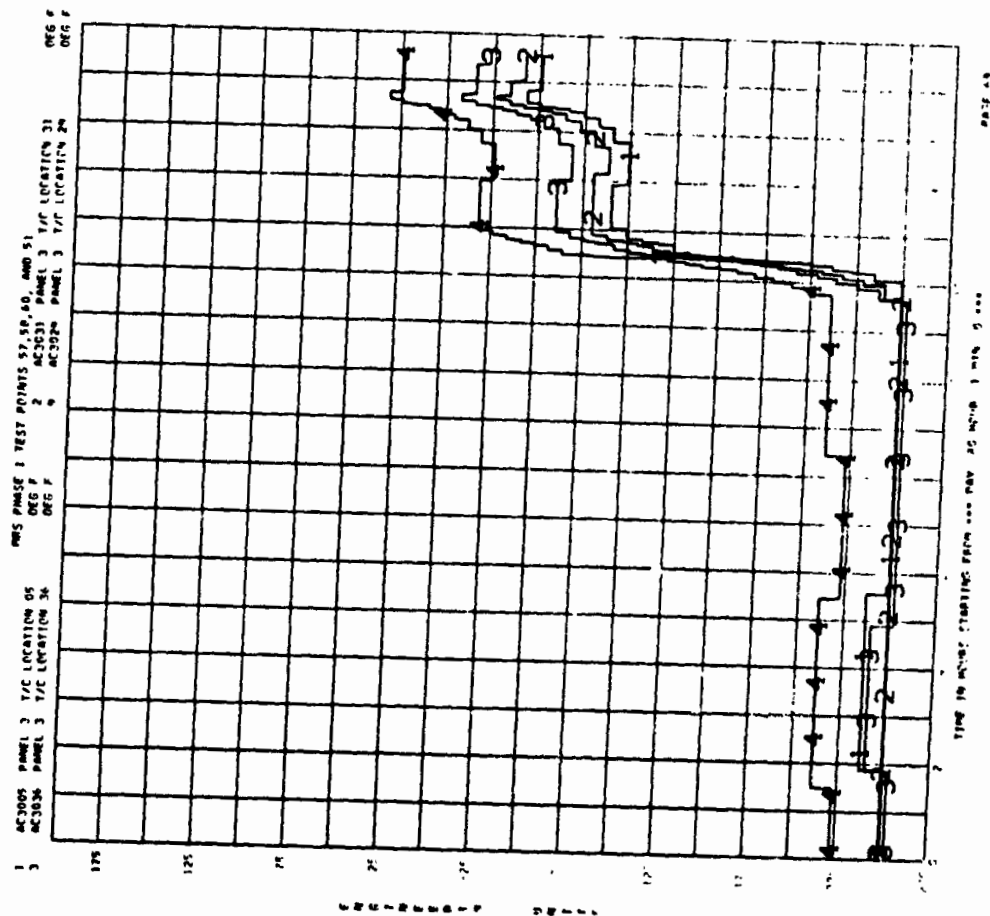


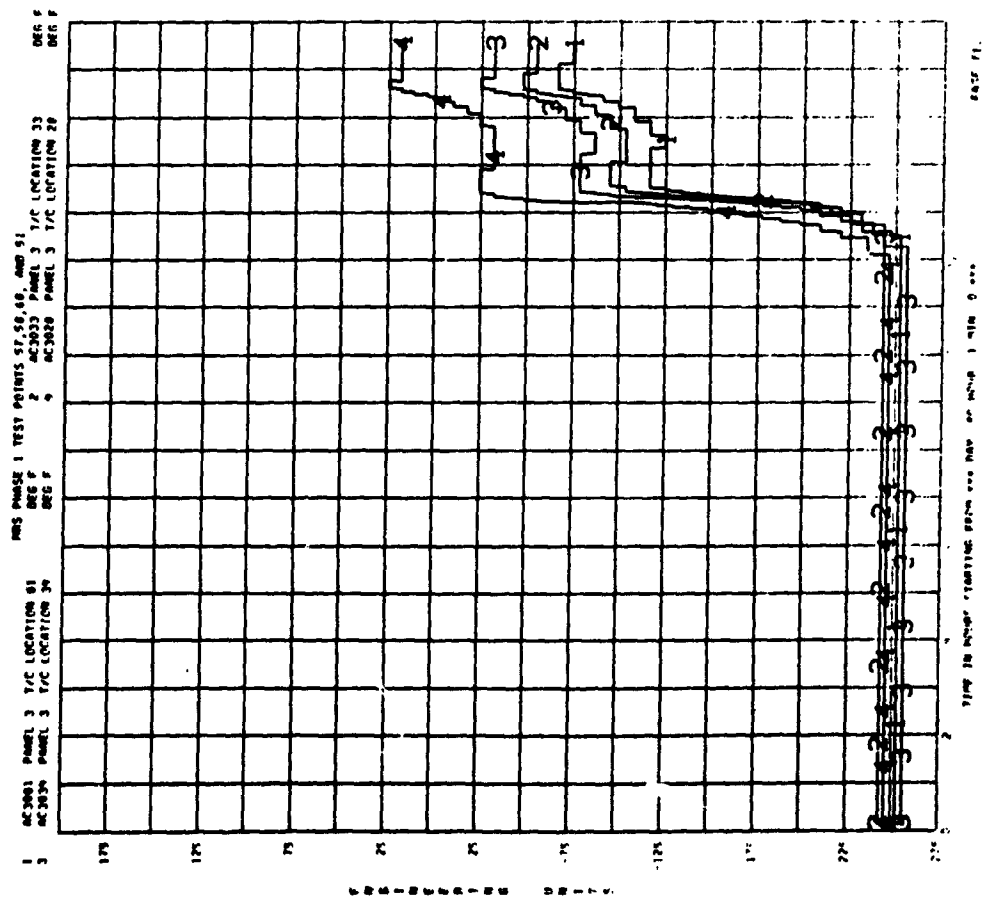
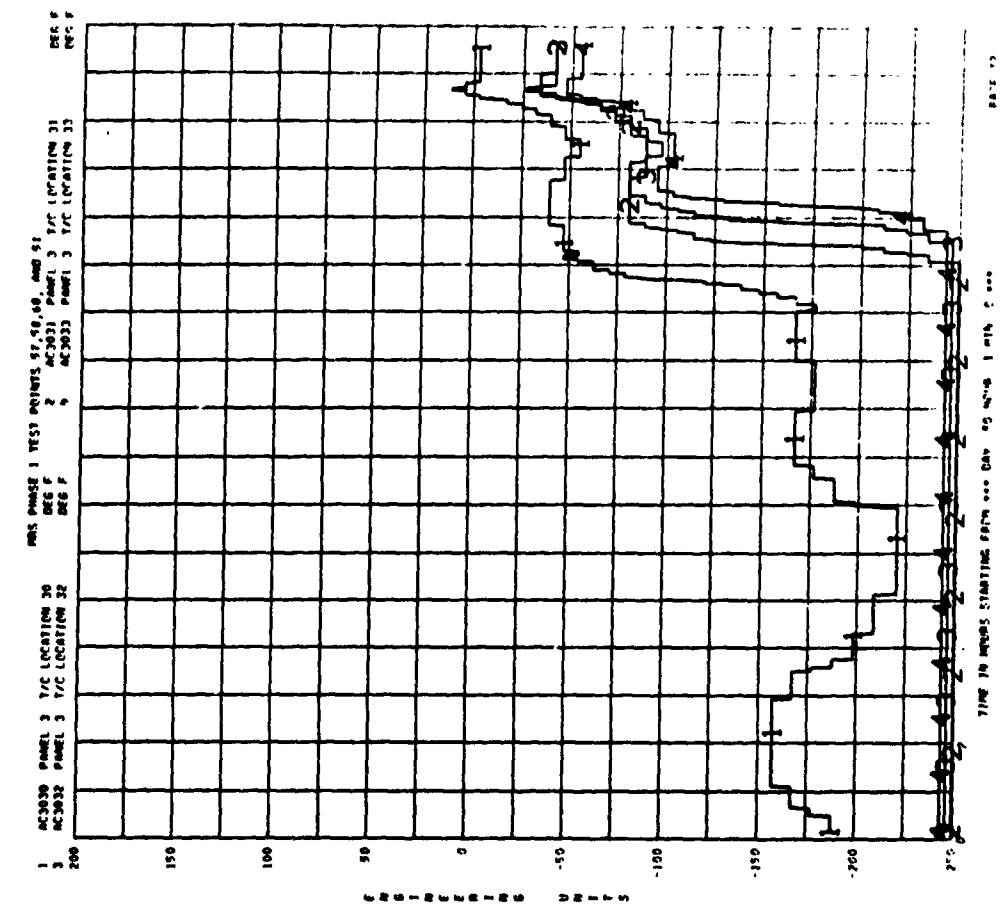


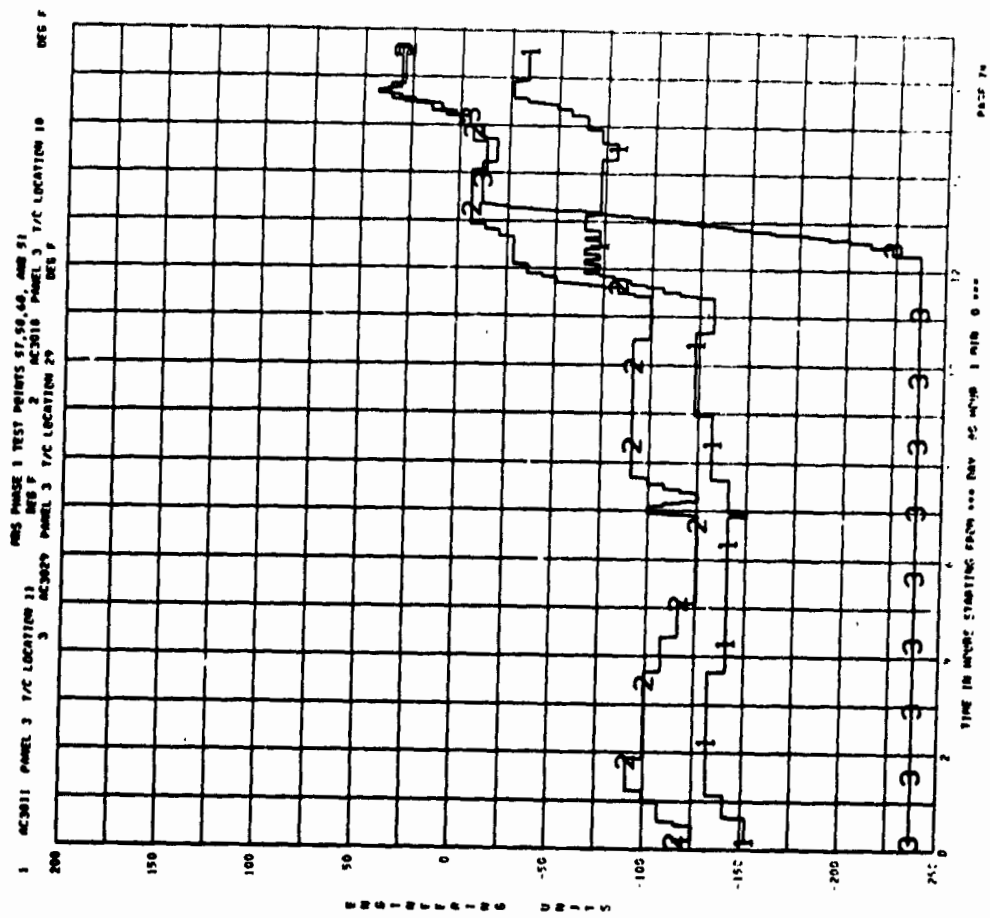
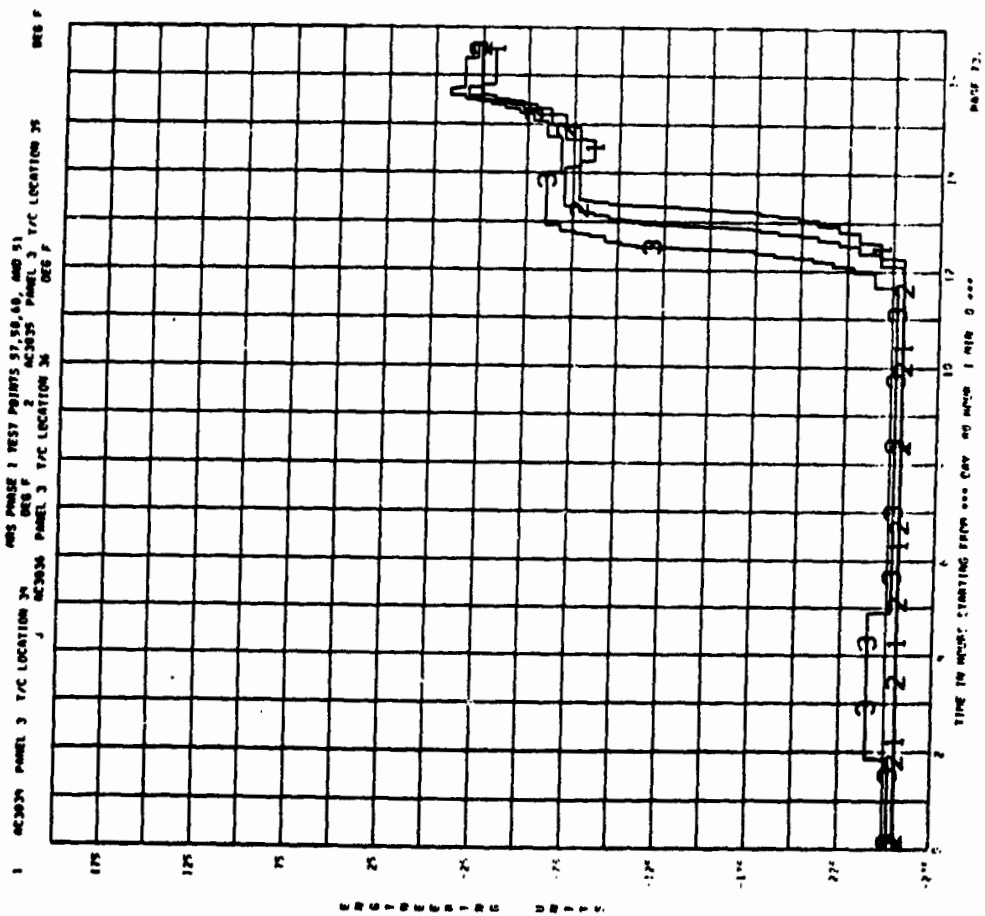


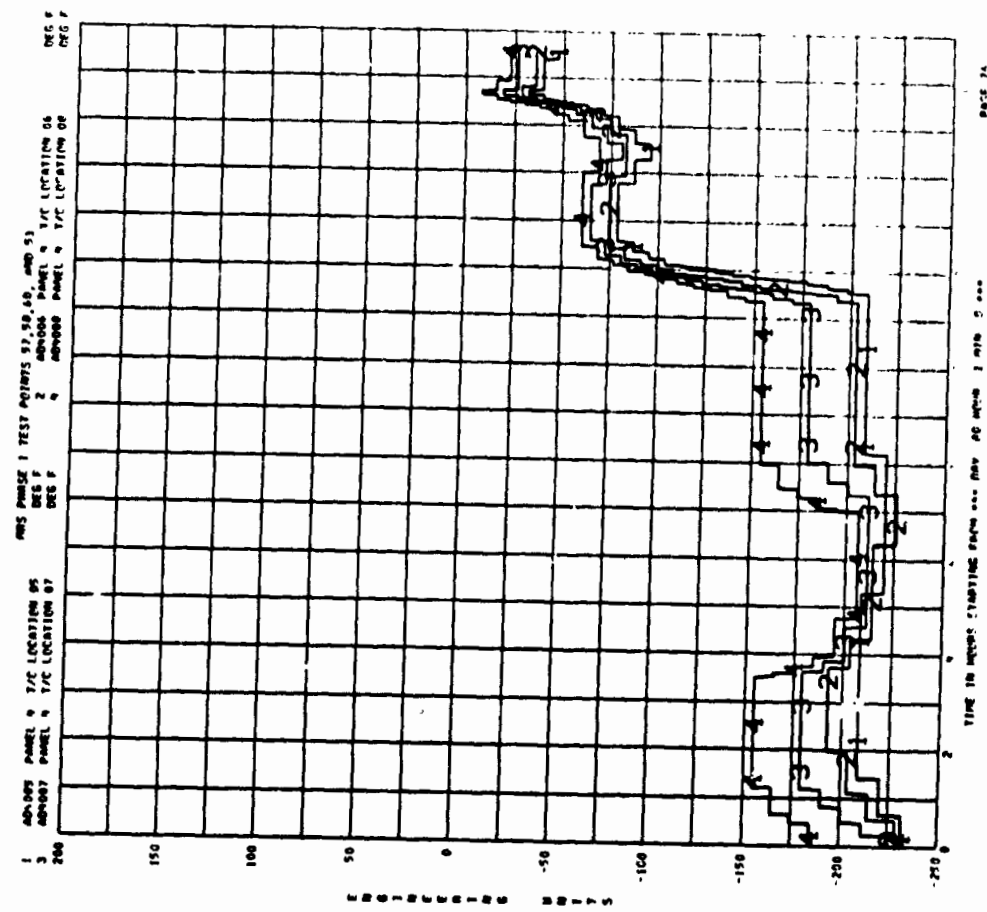
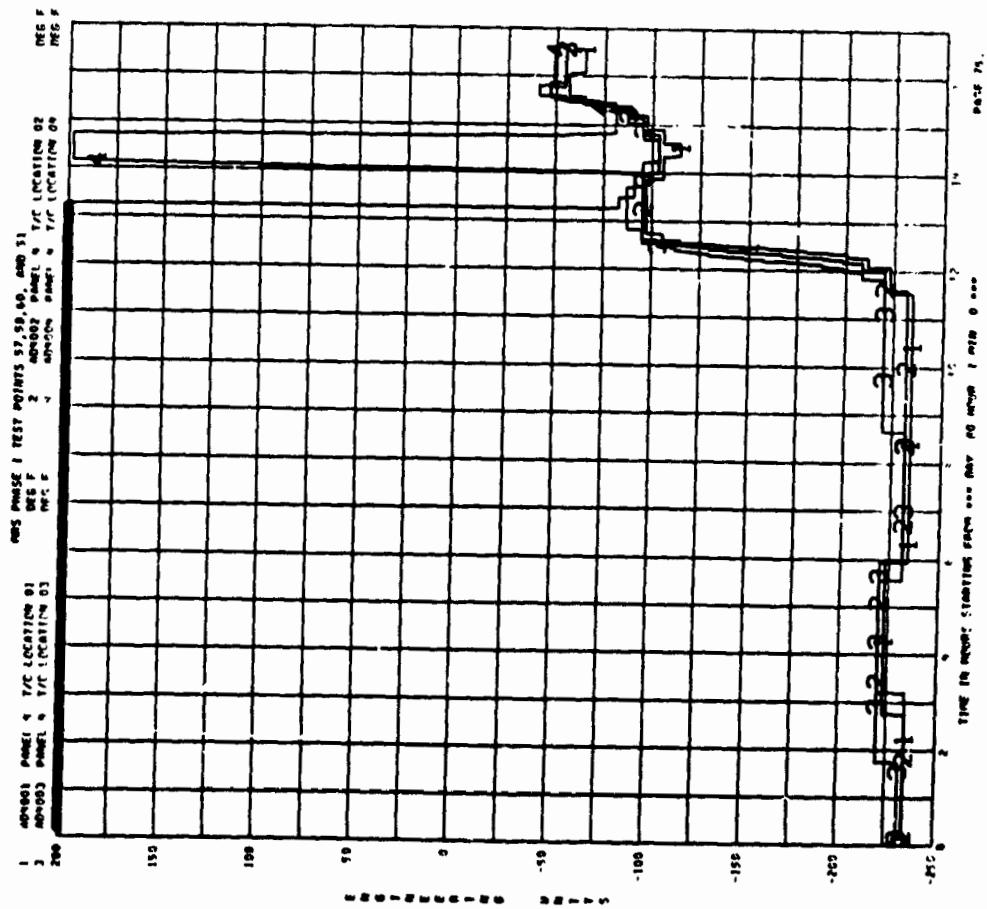






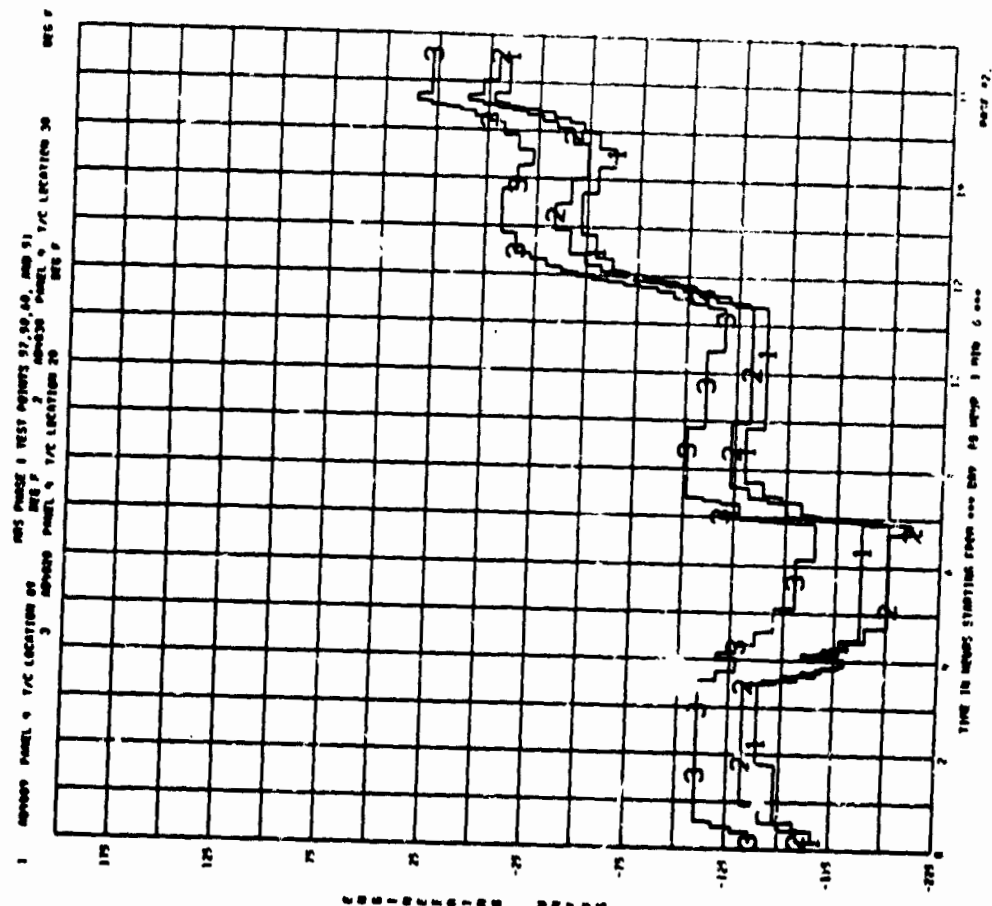
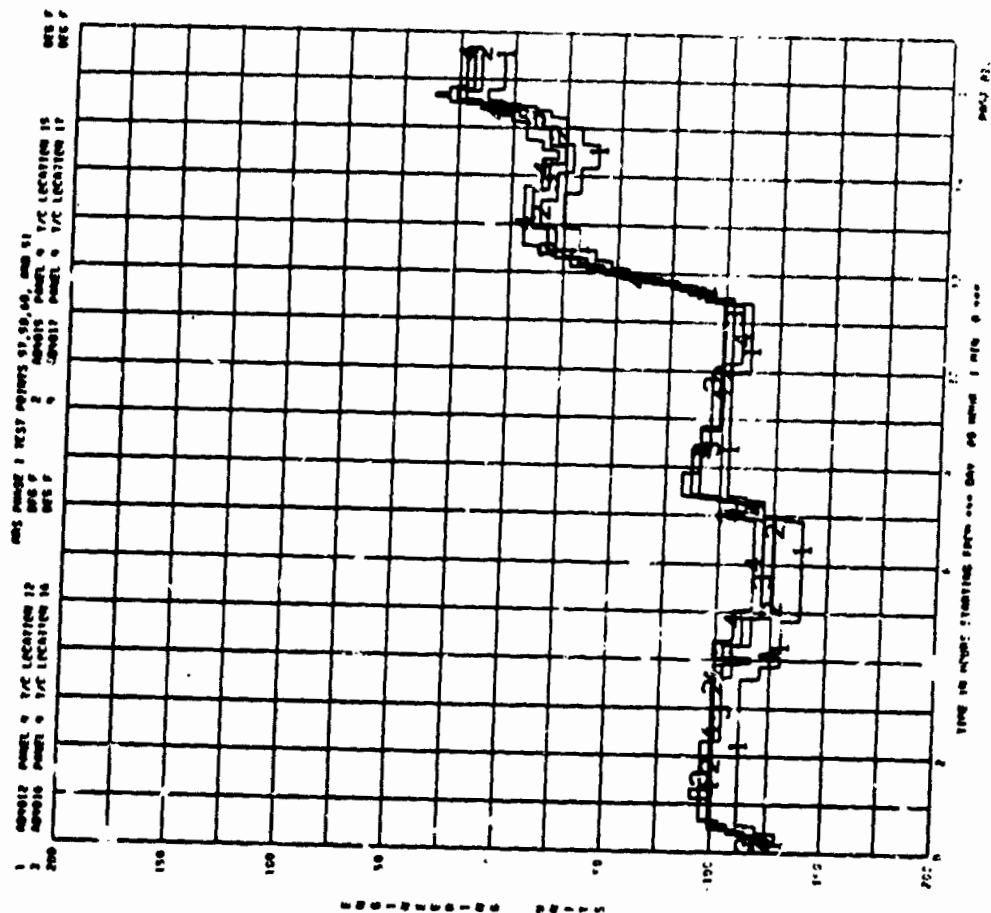






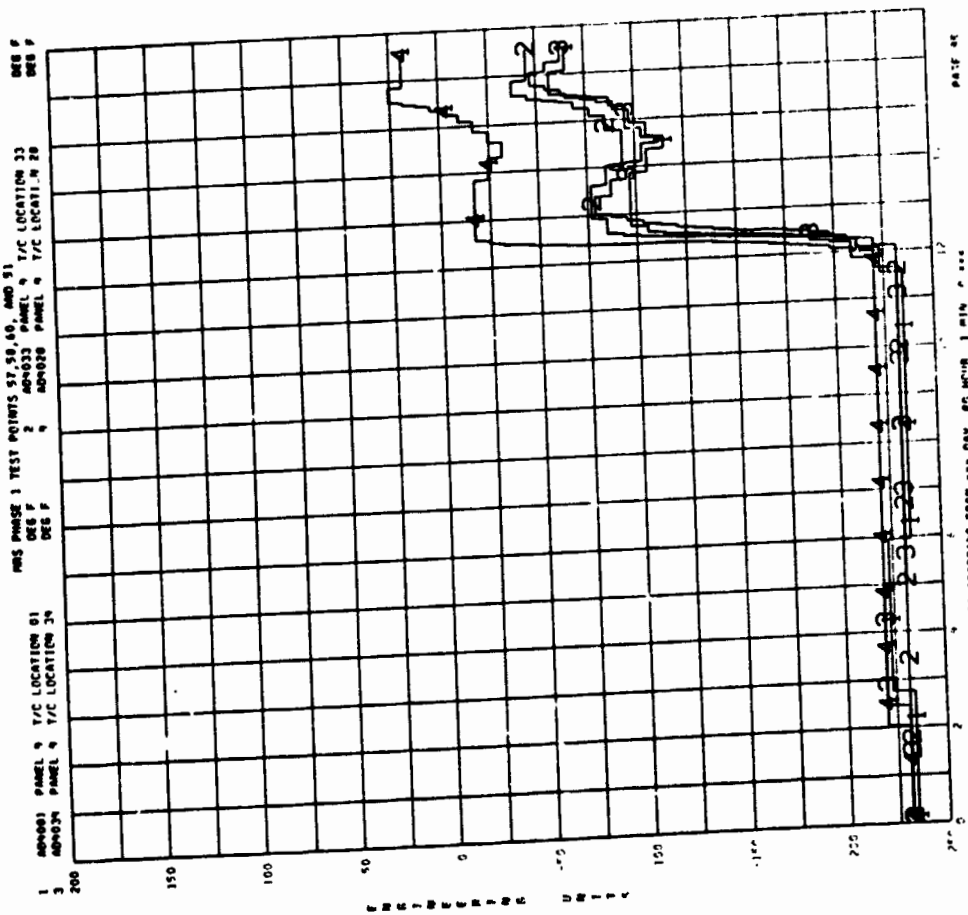
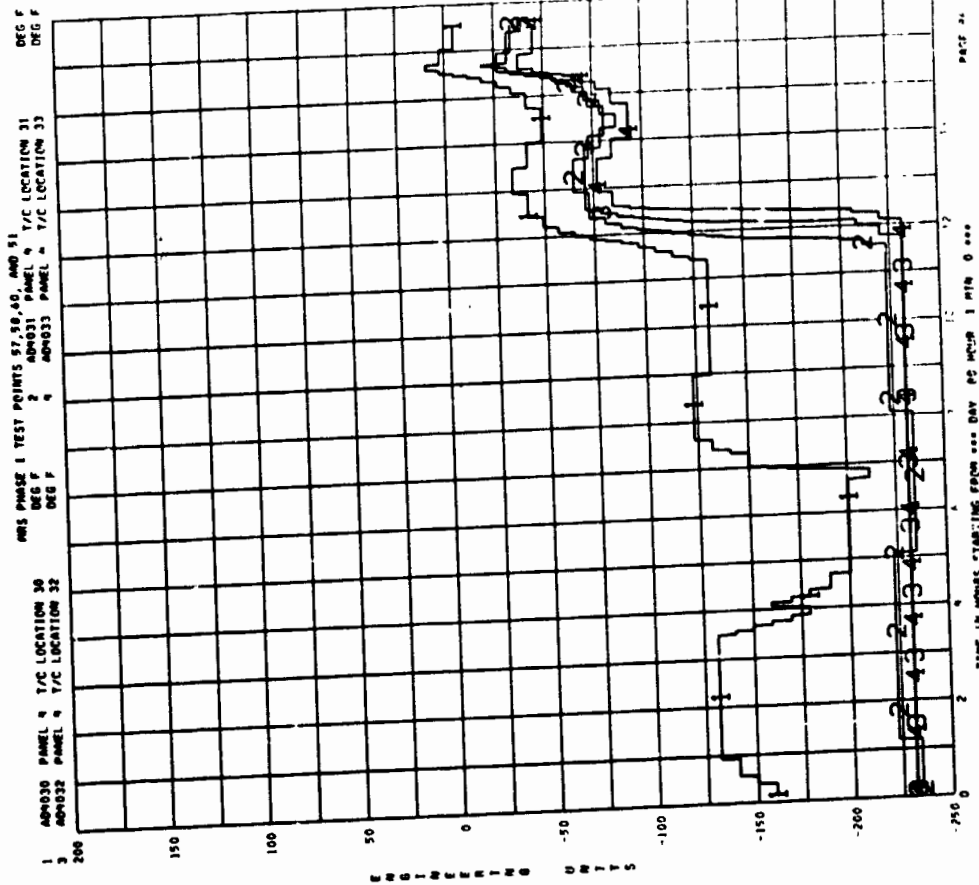




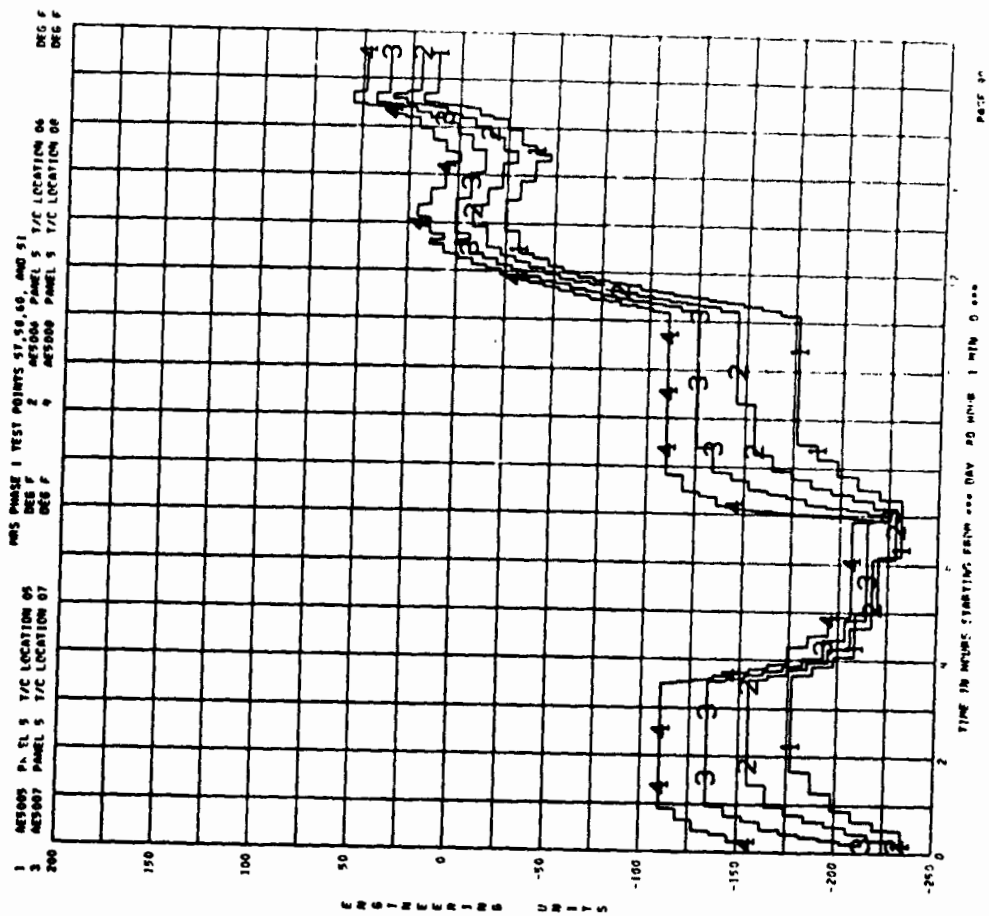
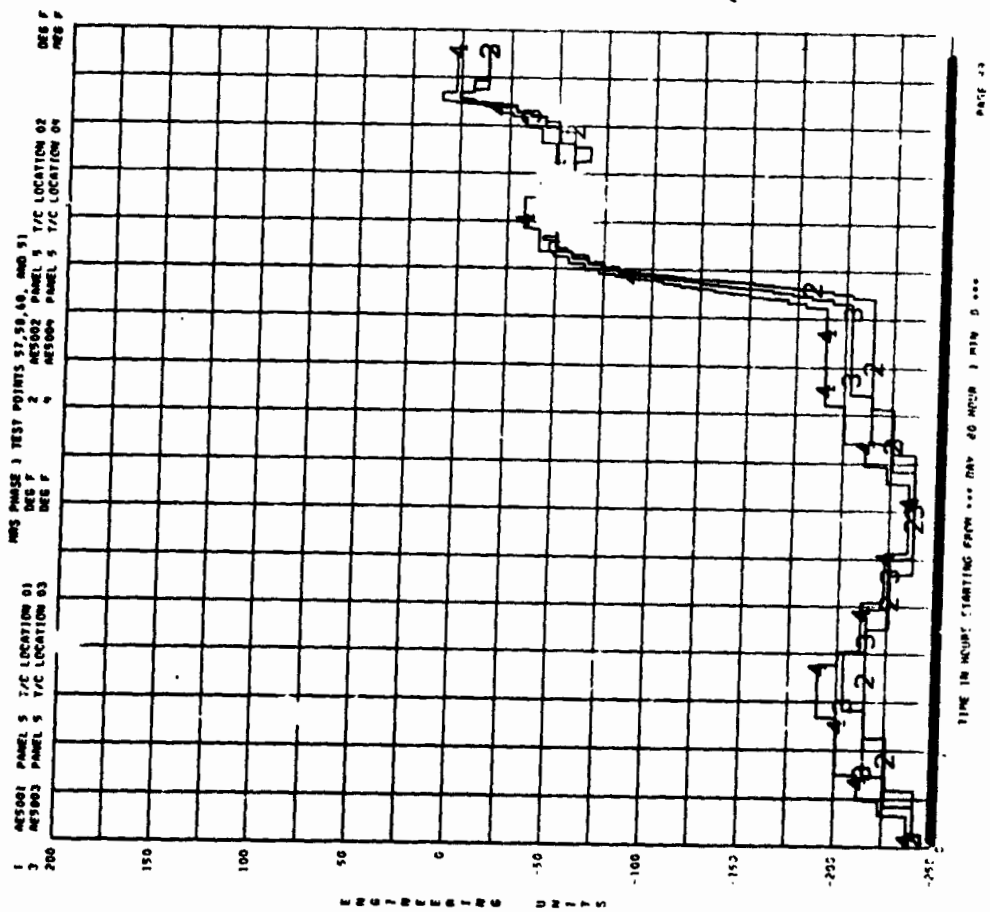


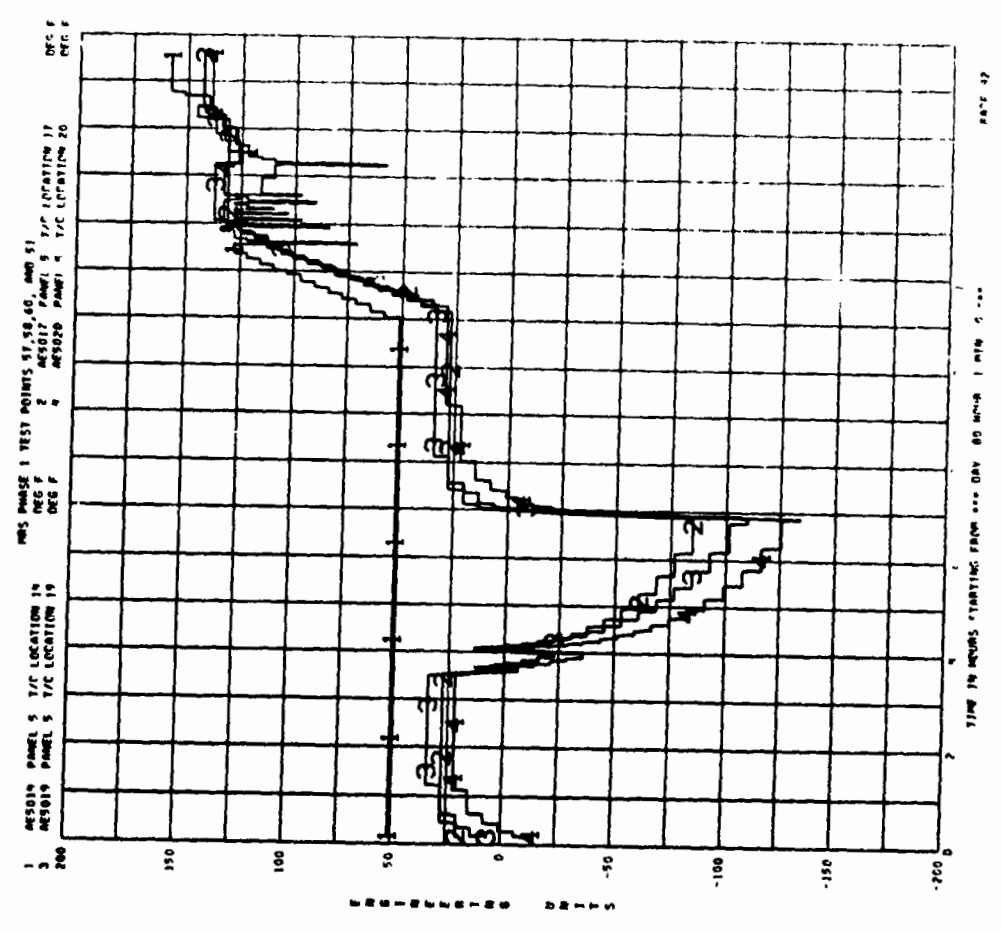
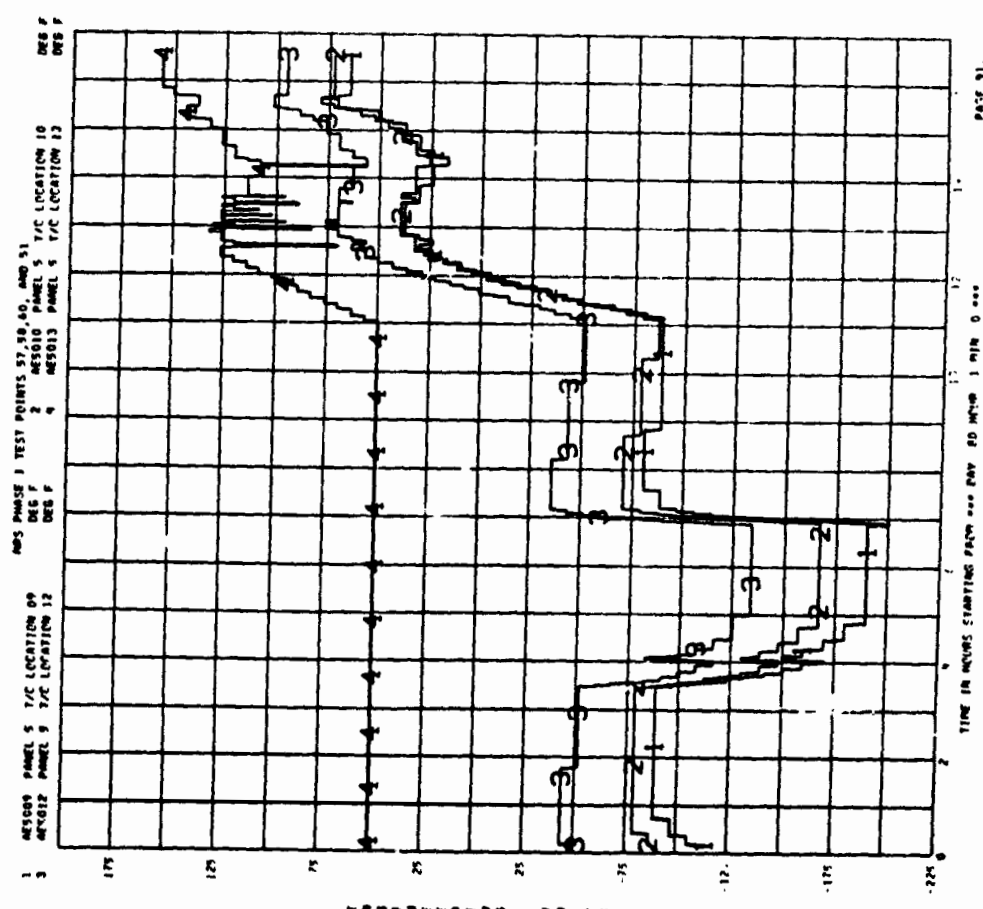


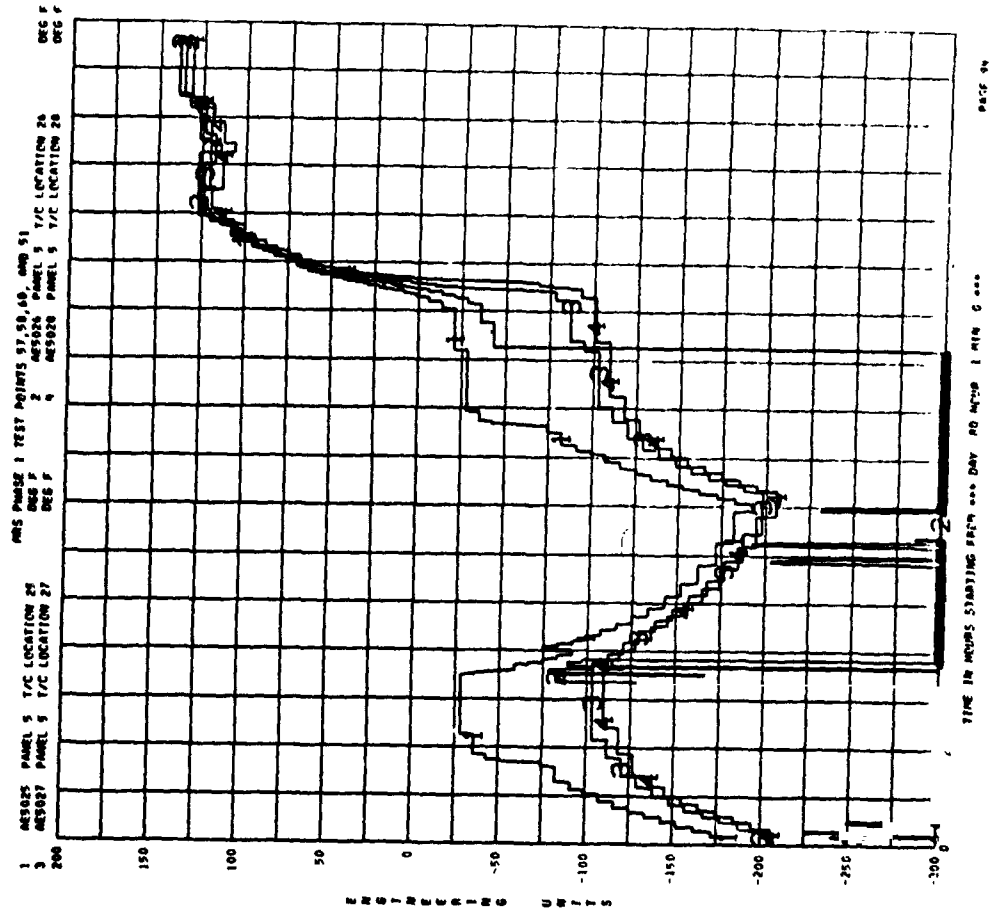
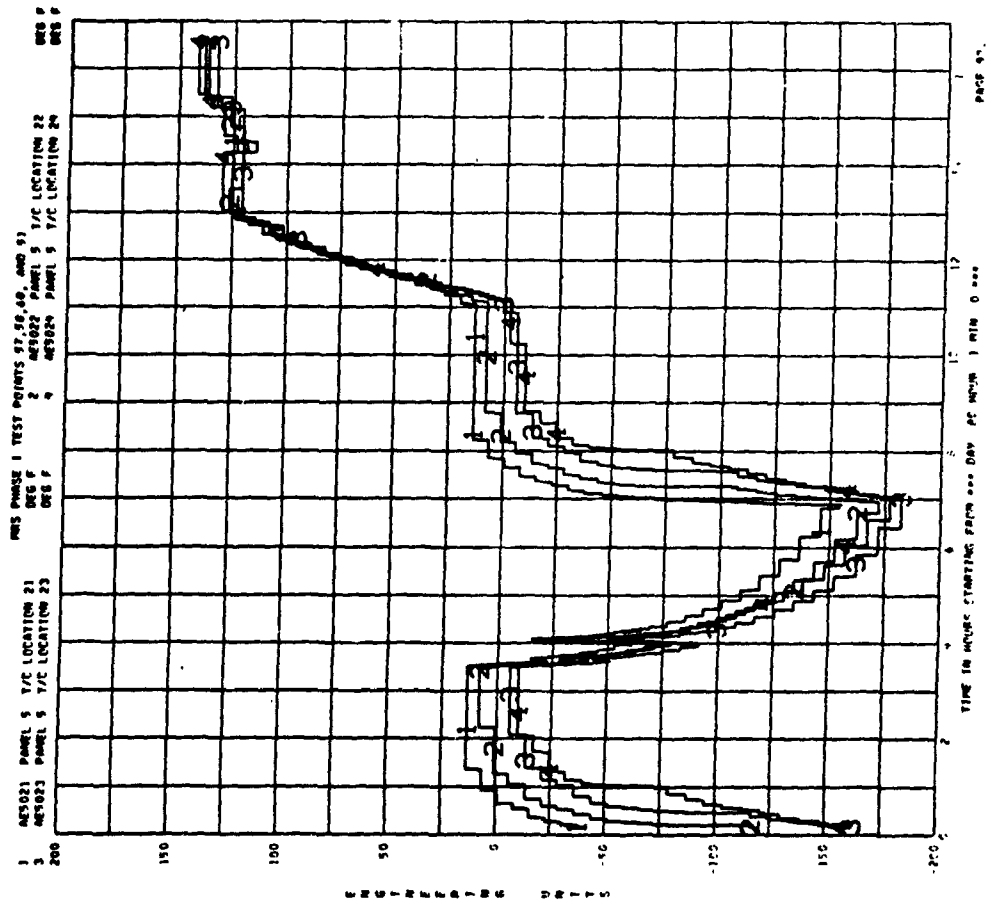


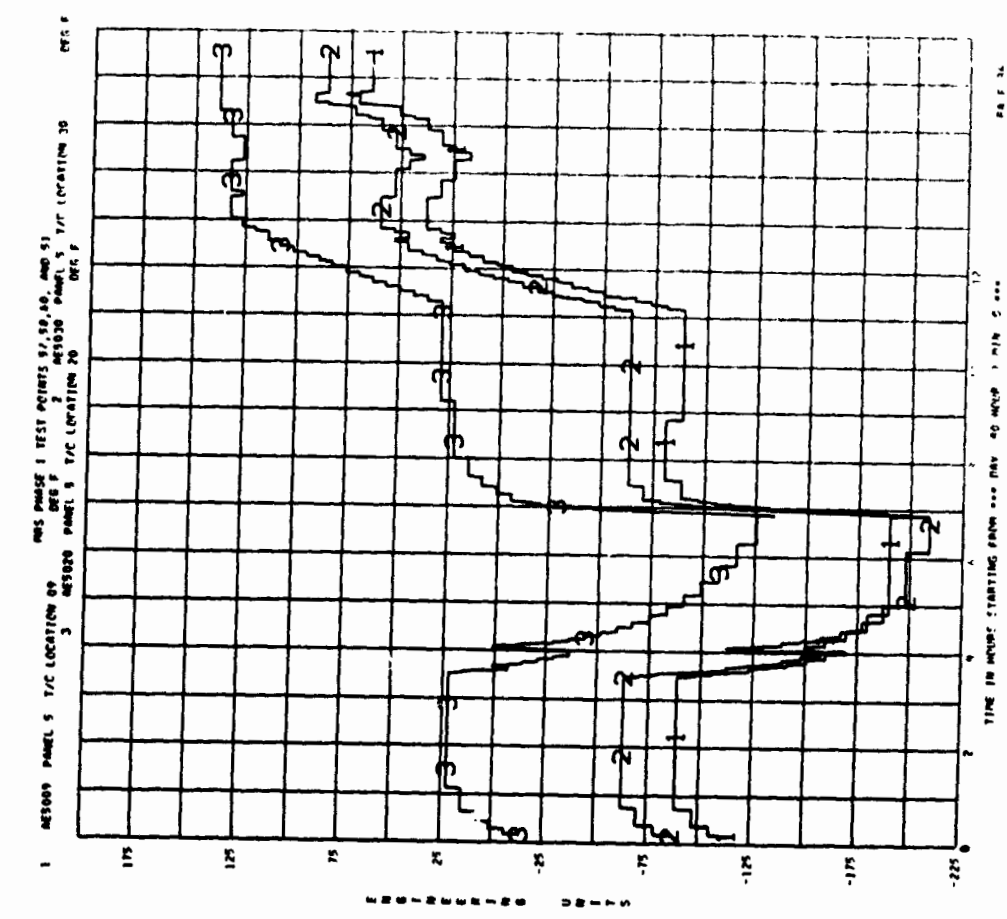
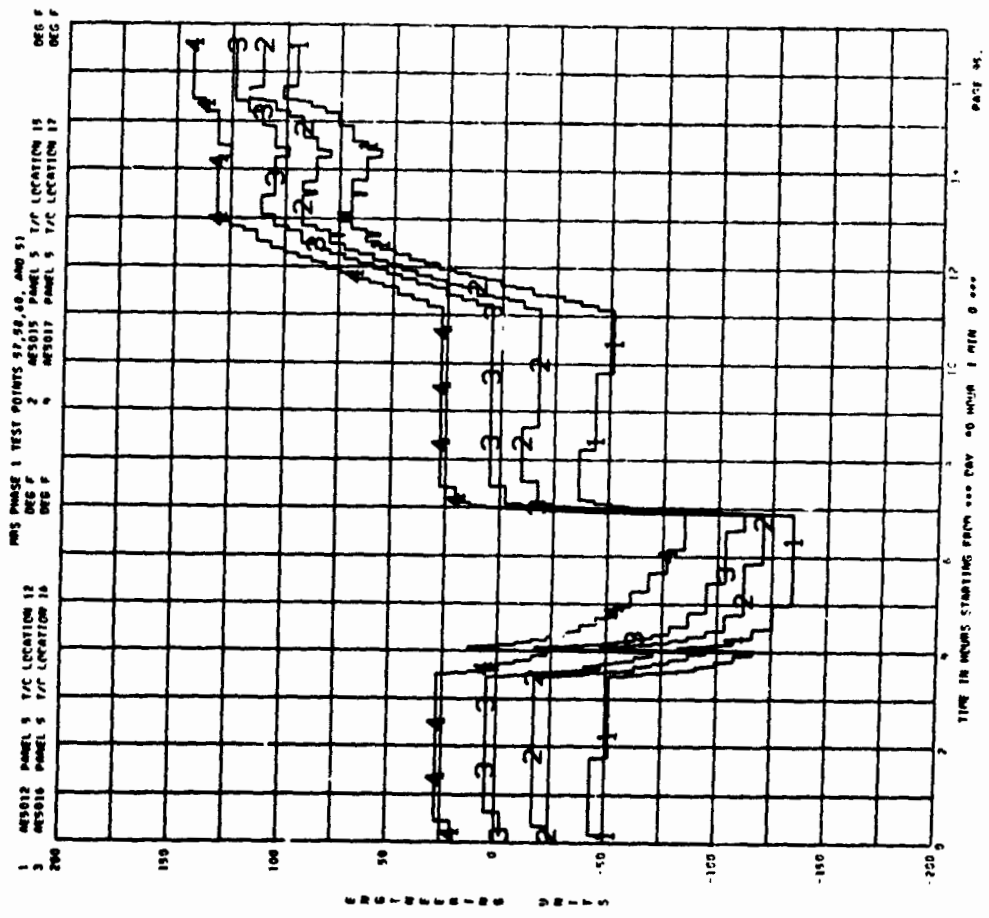


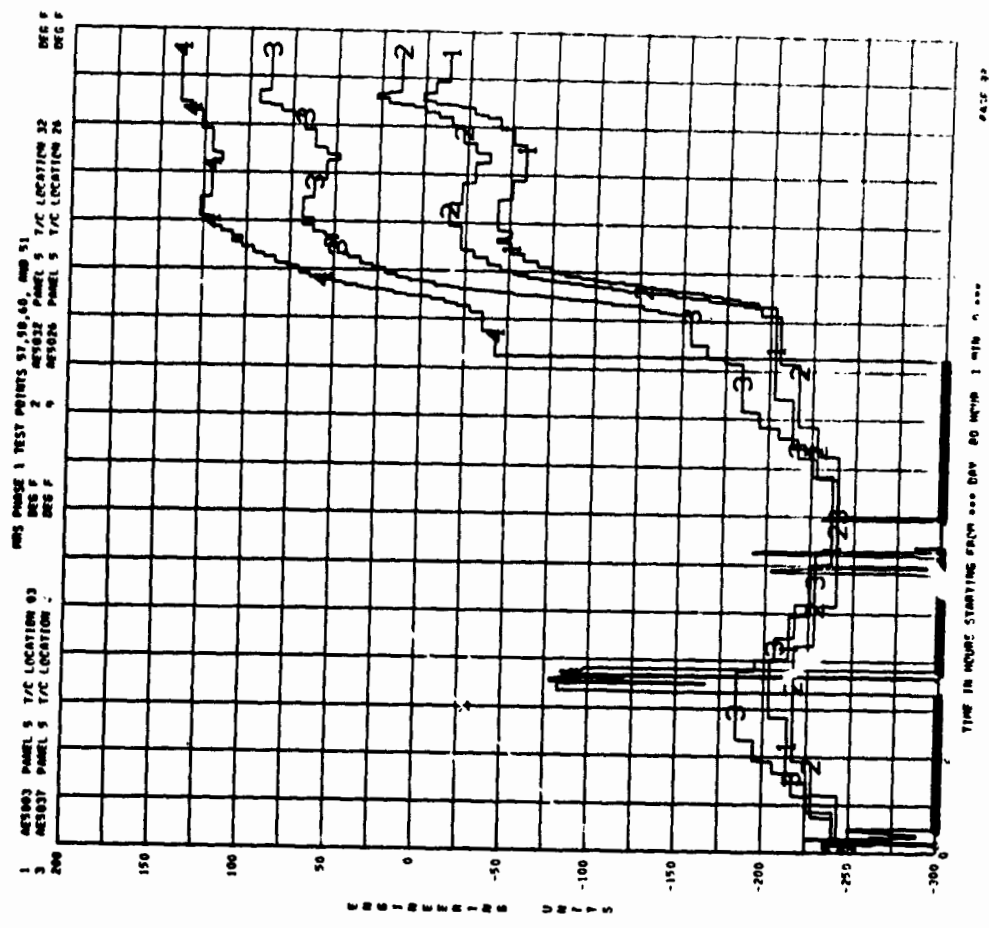
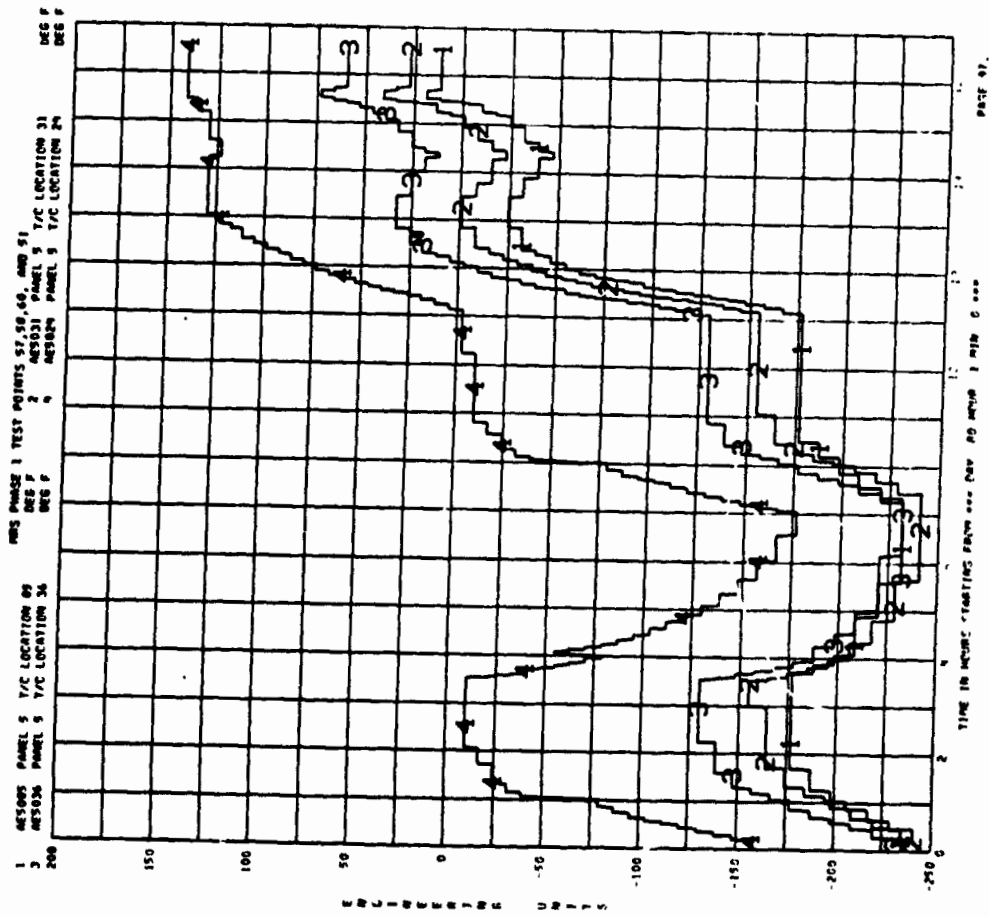






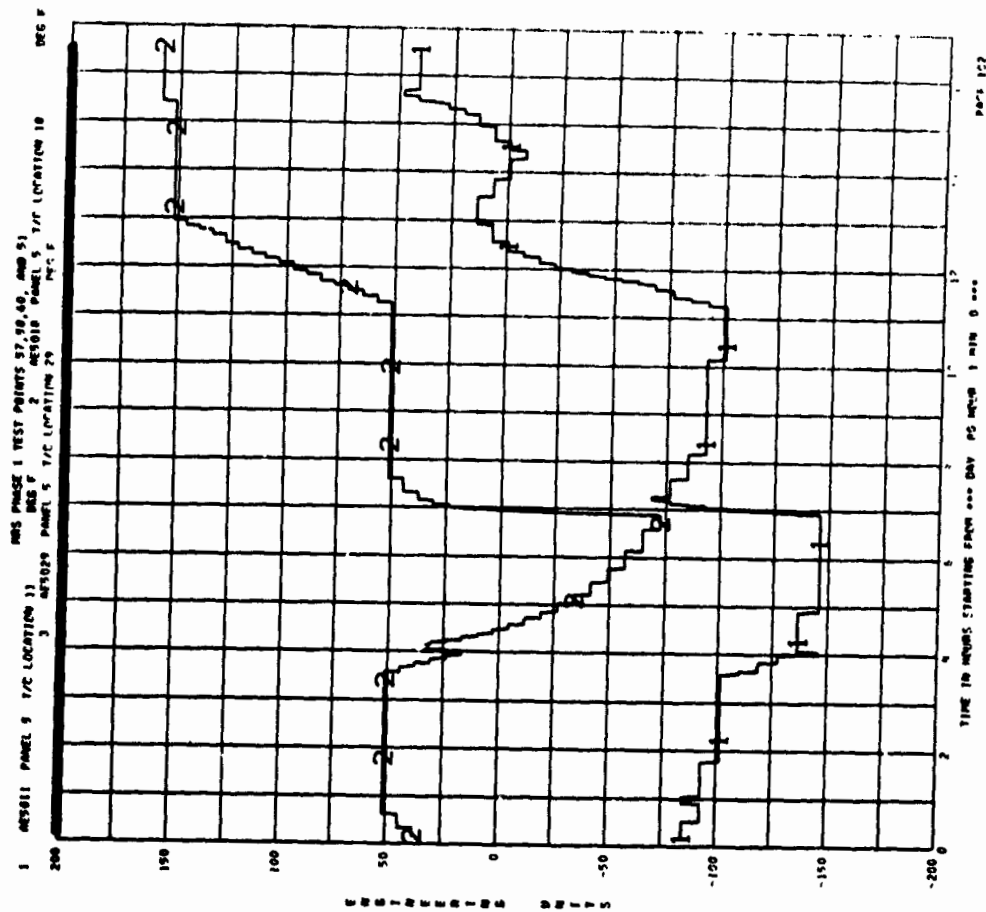
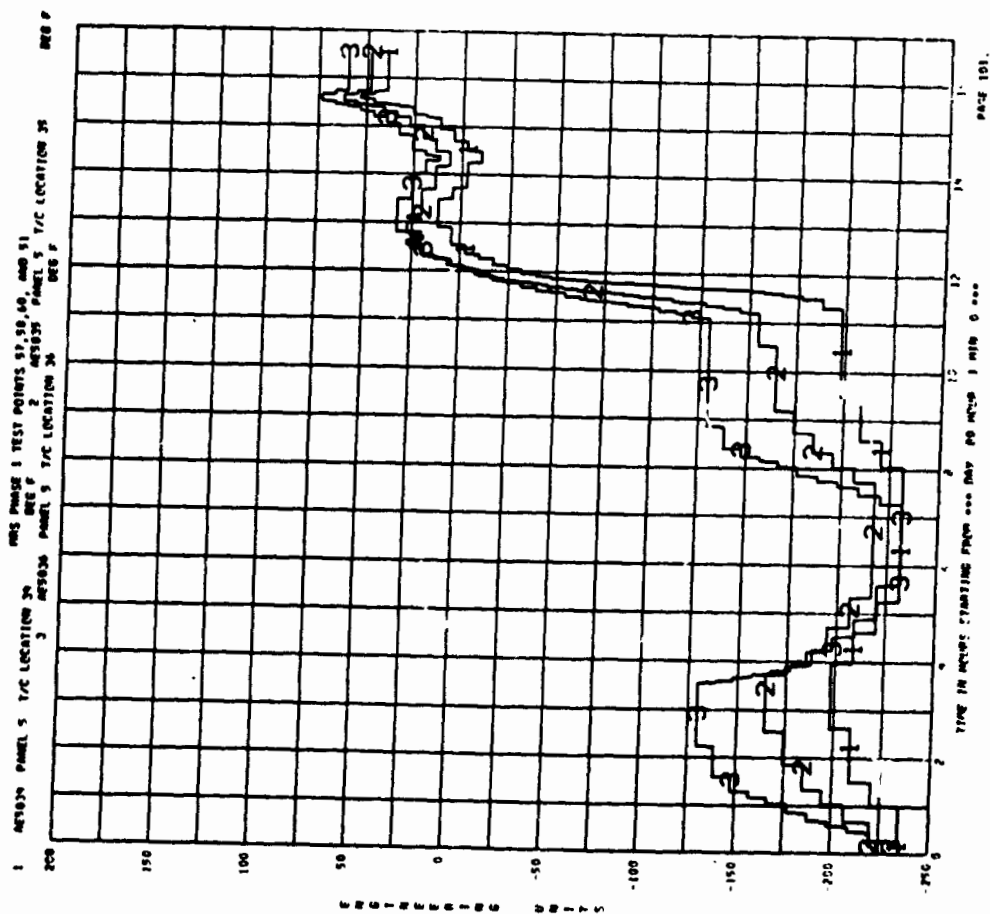


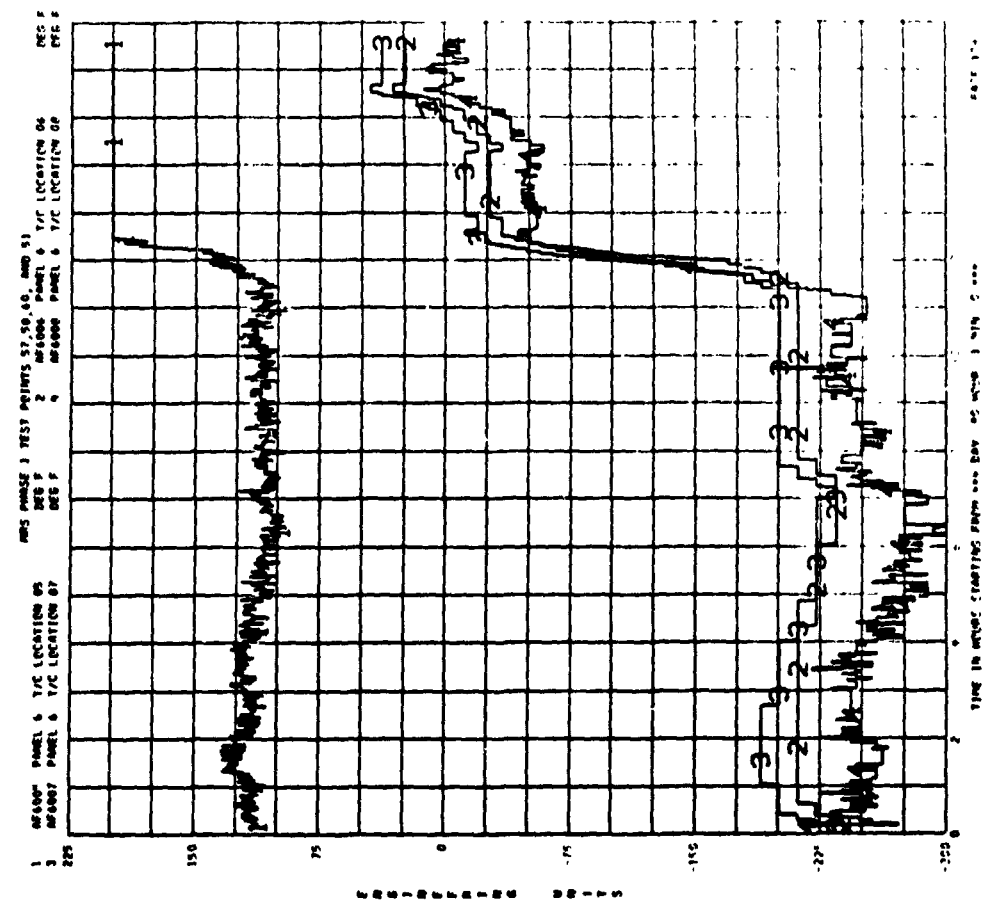
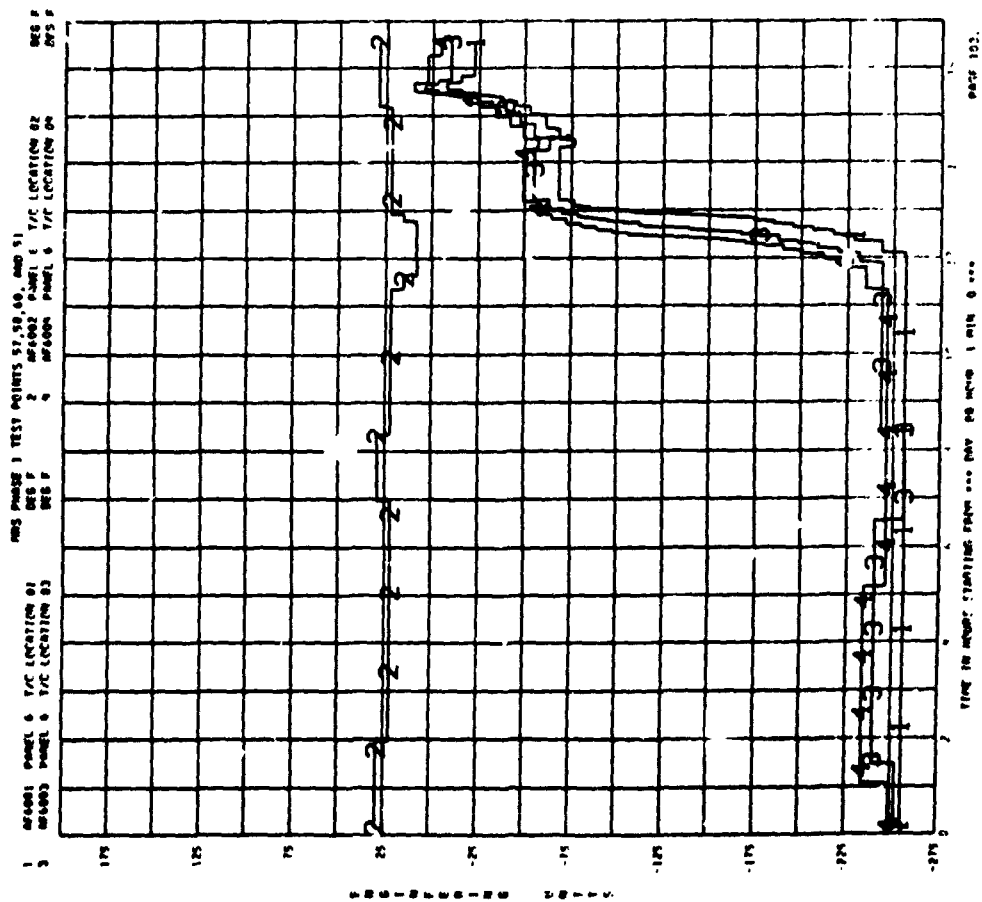










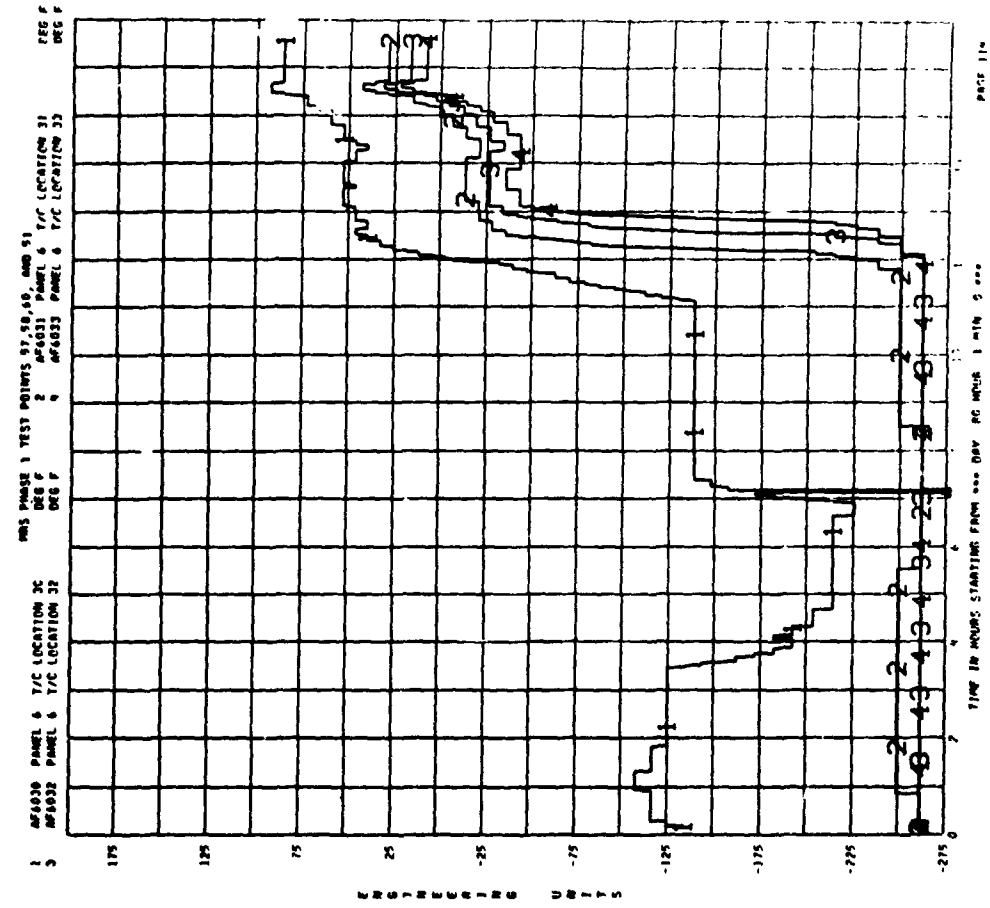
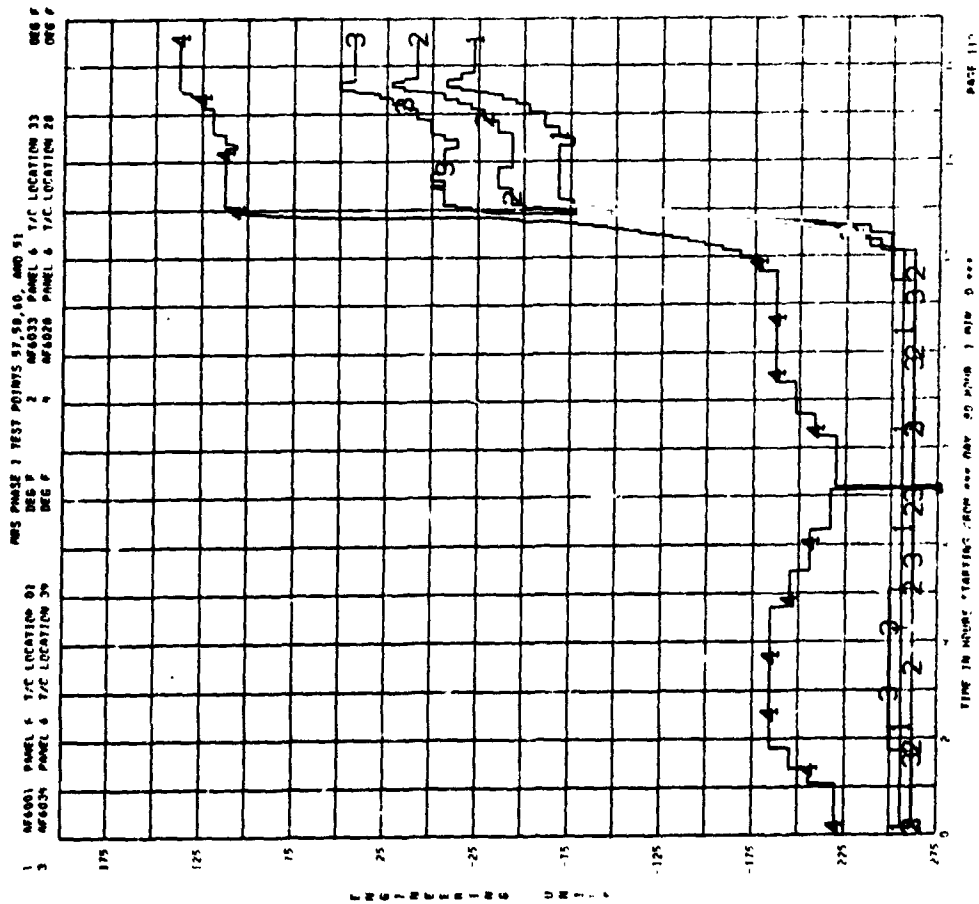




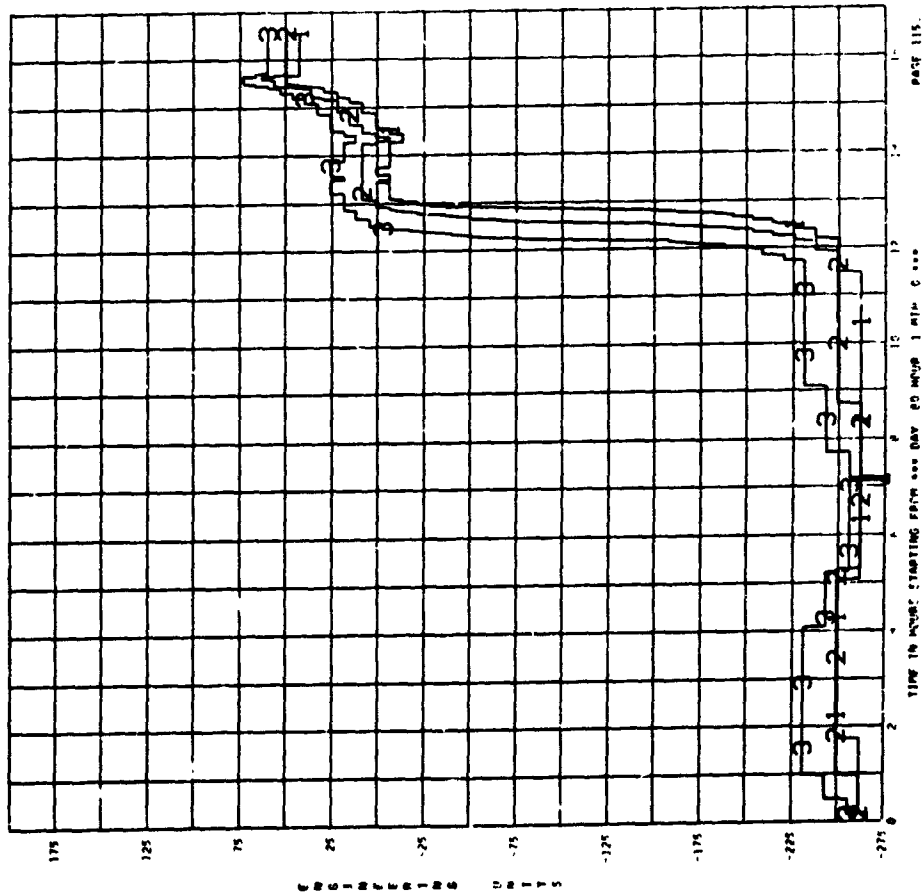




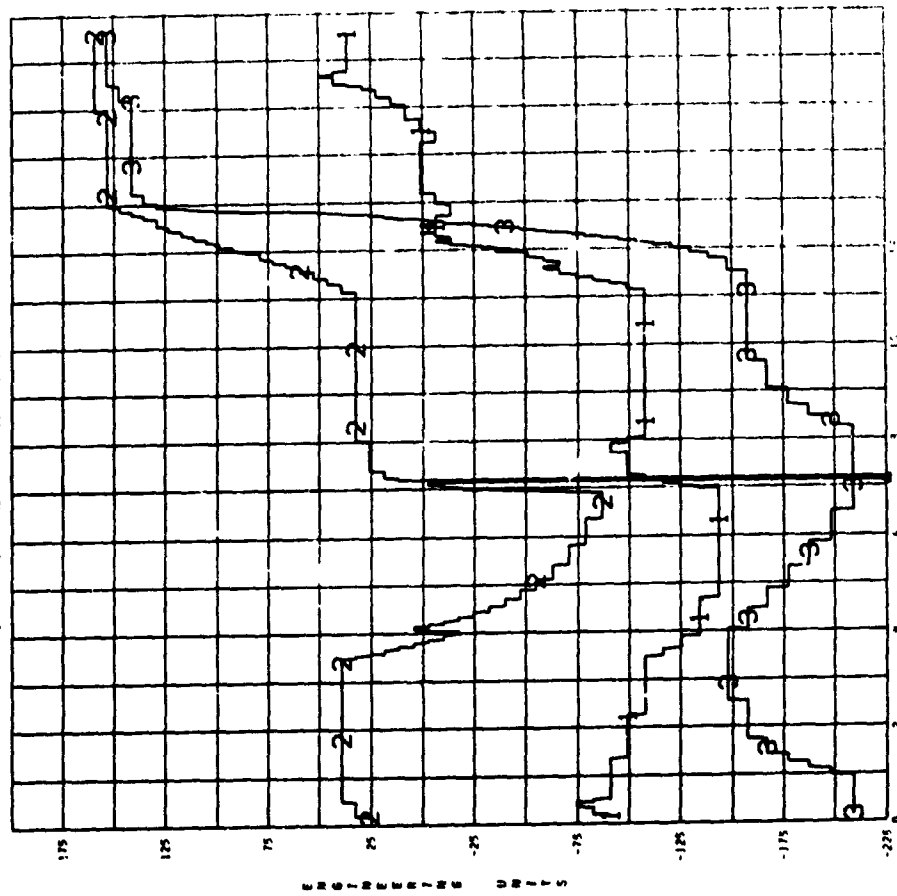




1	AF6011	PANEL 6	T/C LOCATION 11 3	AF6029 PANEL 6 T/C LOCATION 29 T.C.F.	END PHASE 3 TEST POINTS ST-58-60, END 51 DEC F TESTING IS	DEC F
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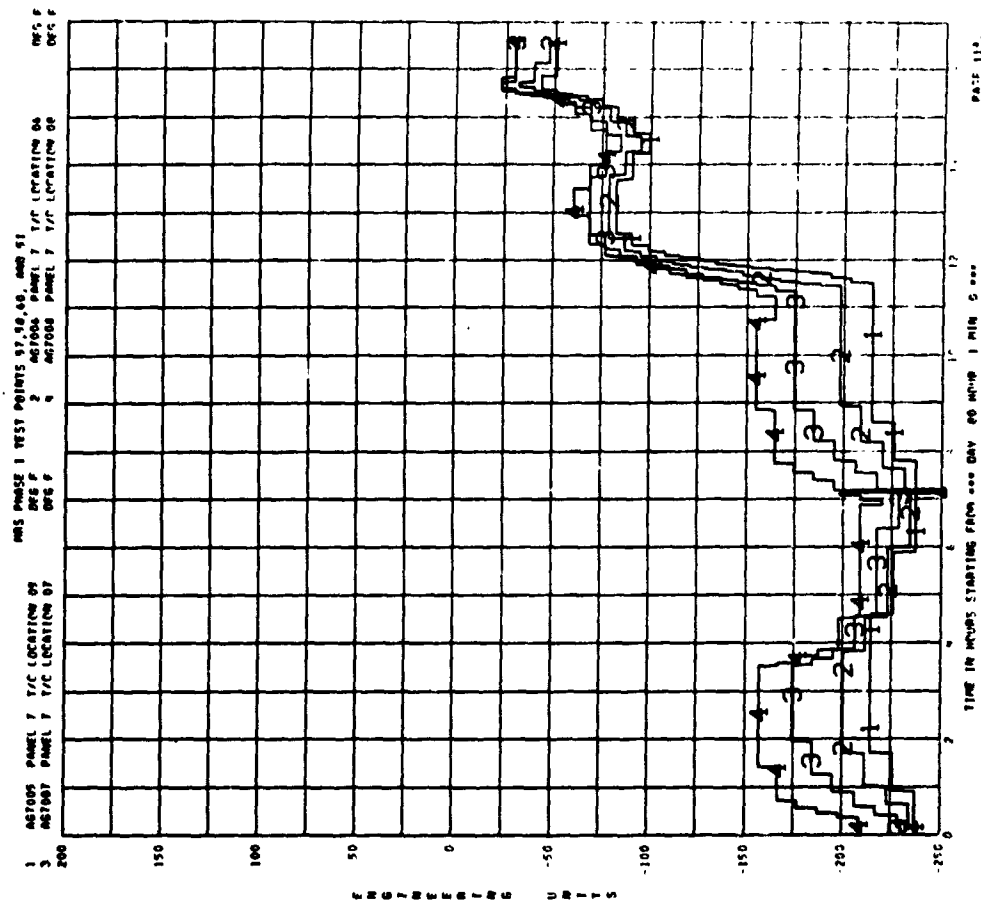
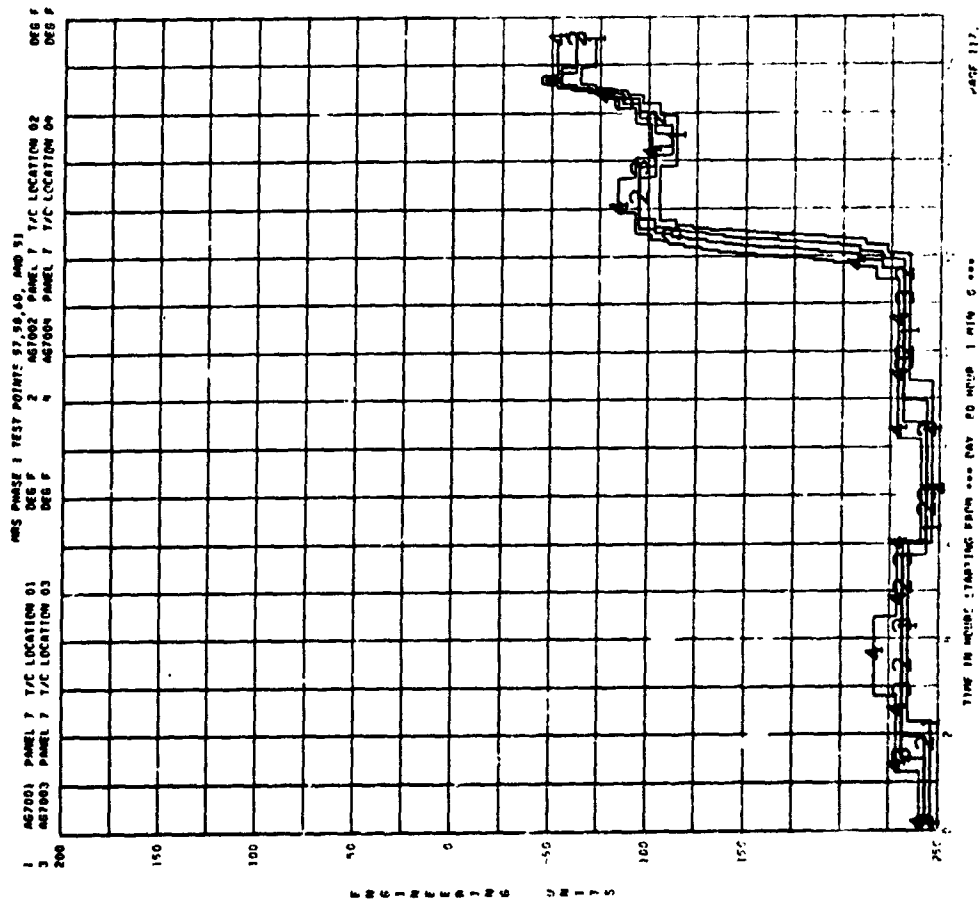


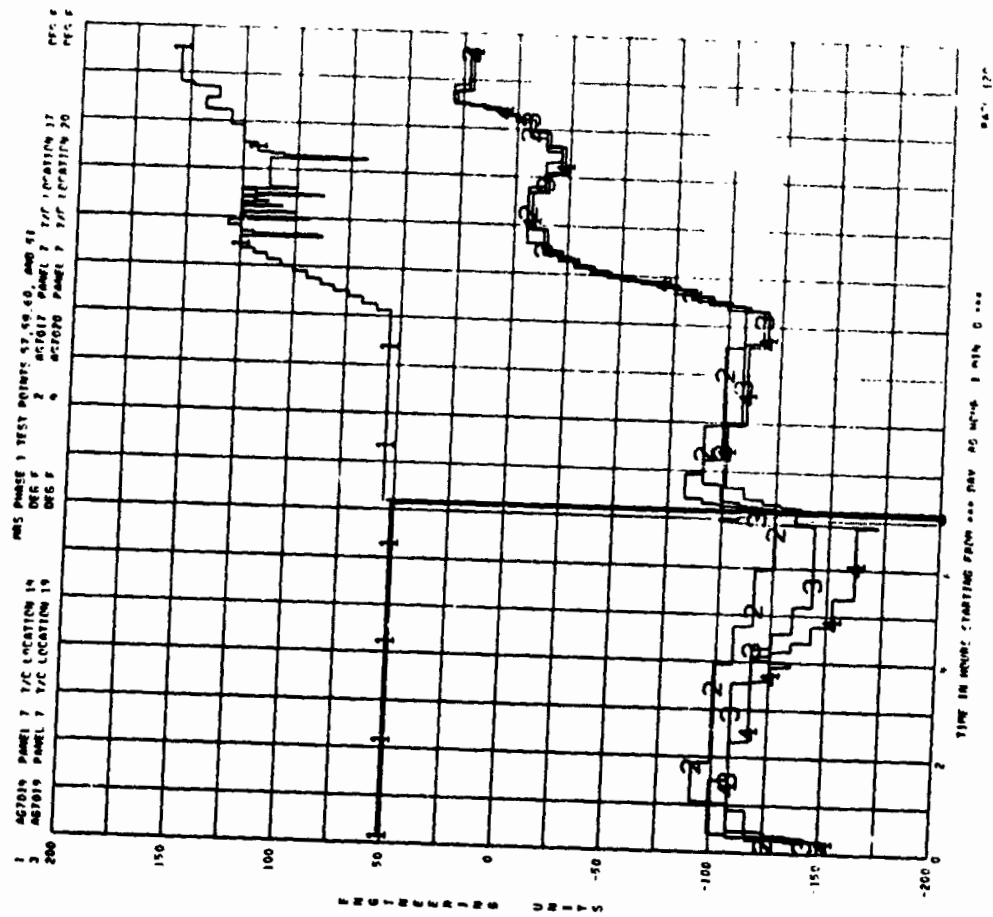
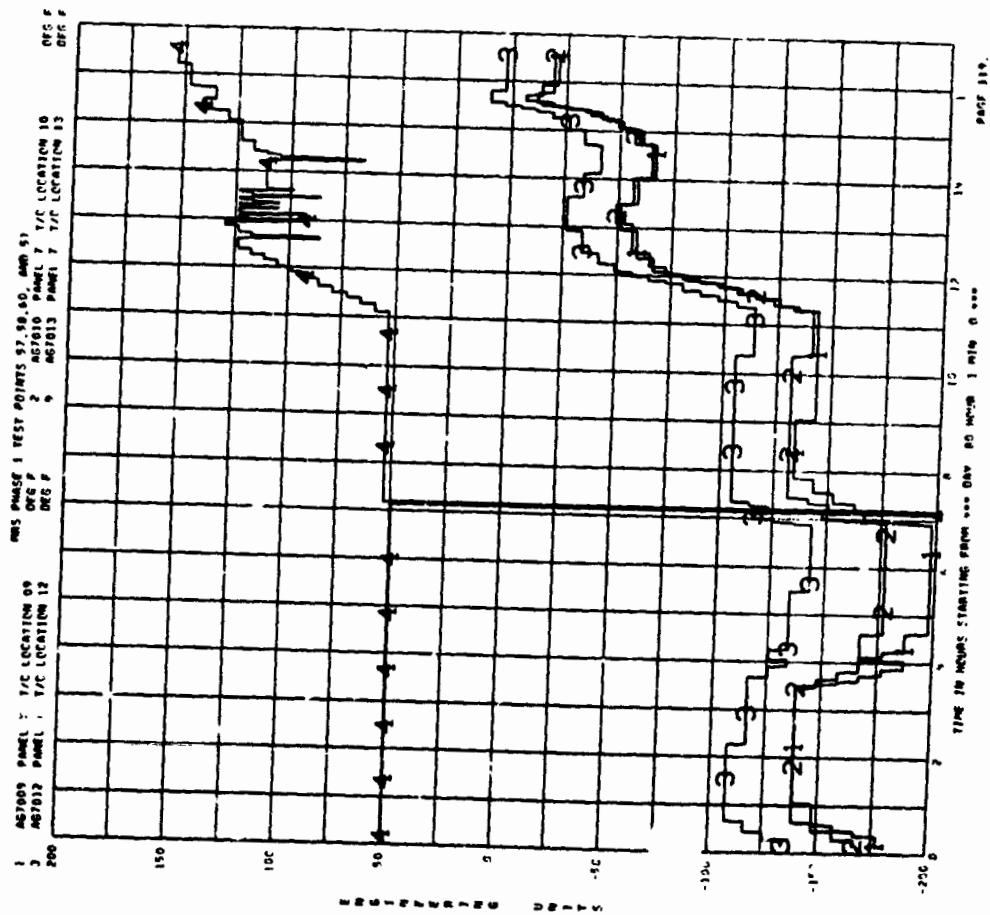
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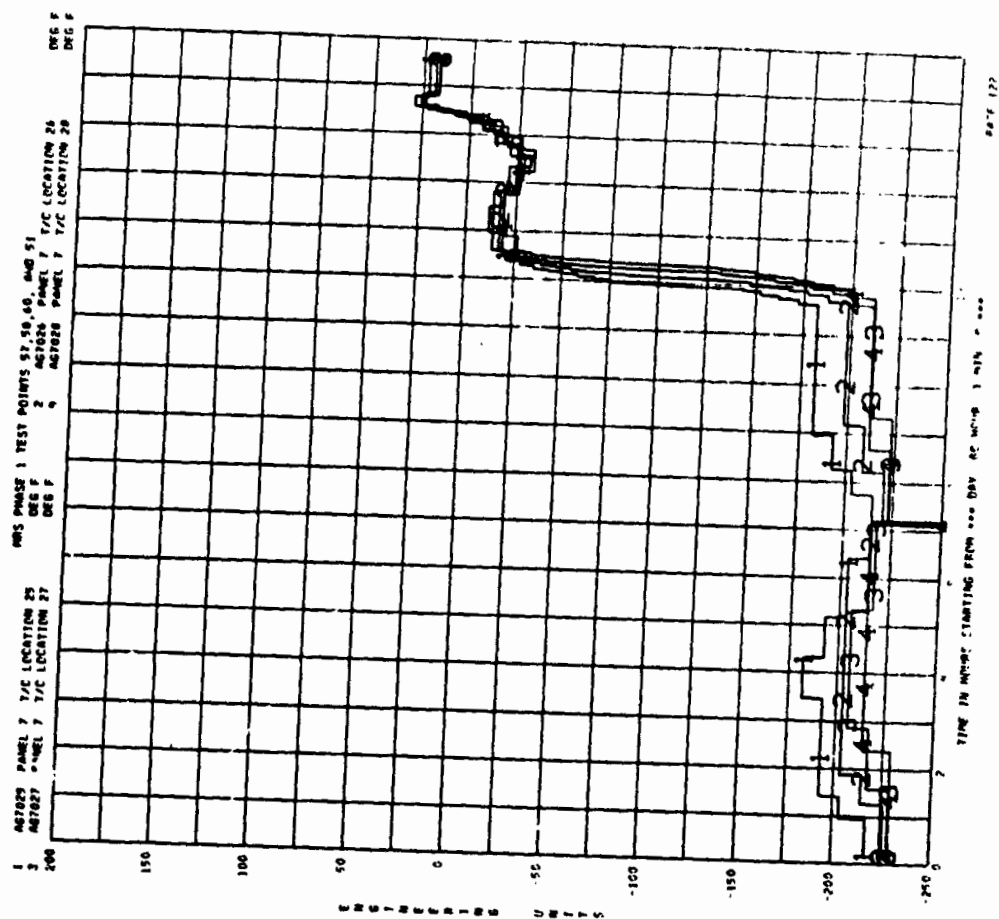
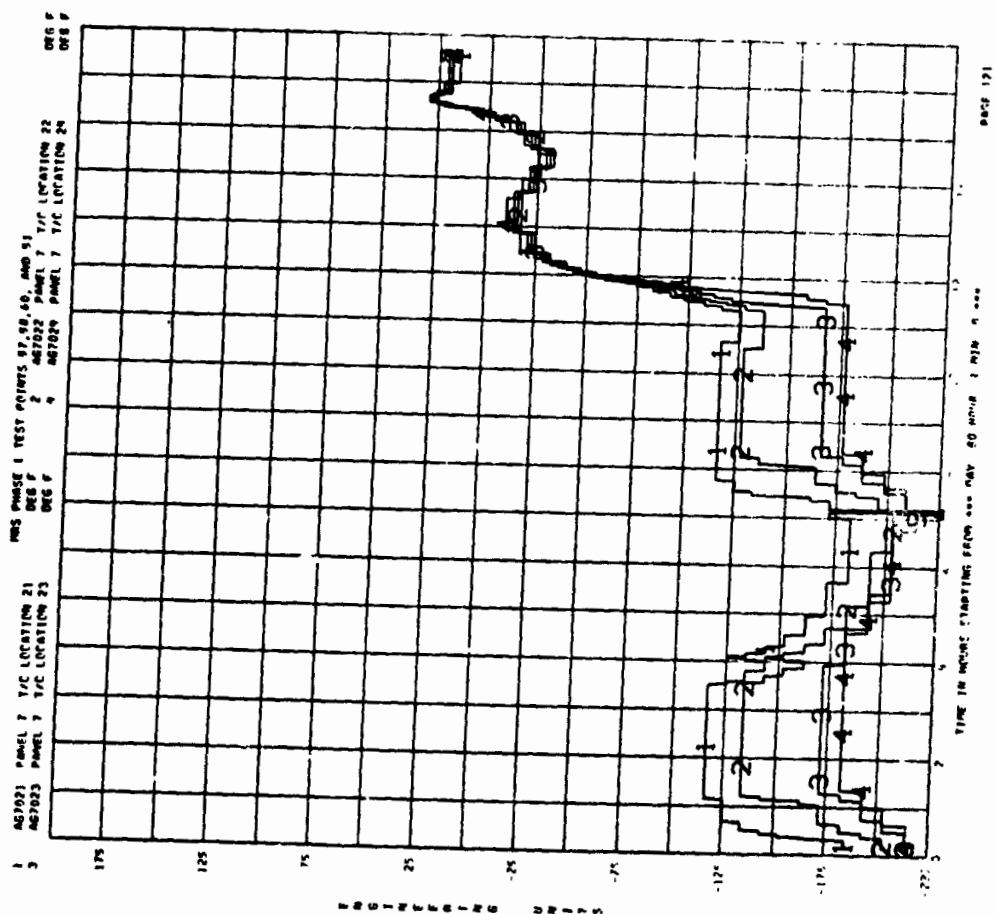


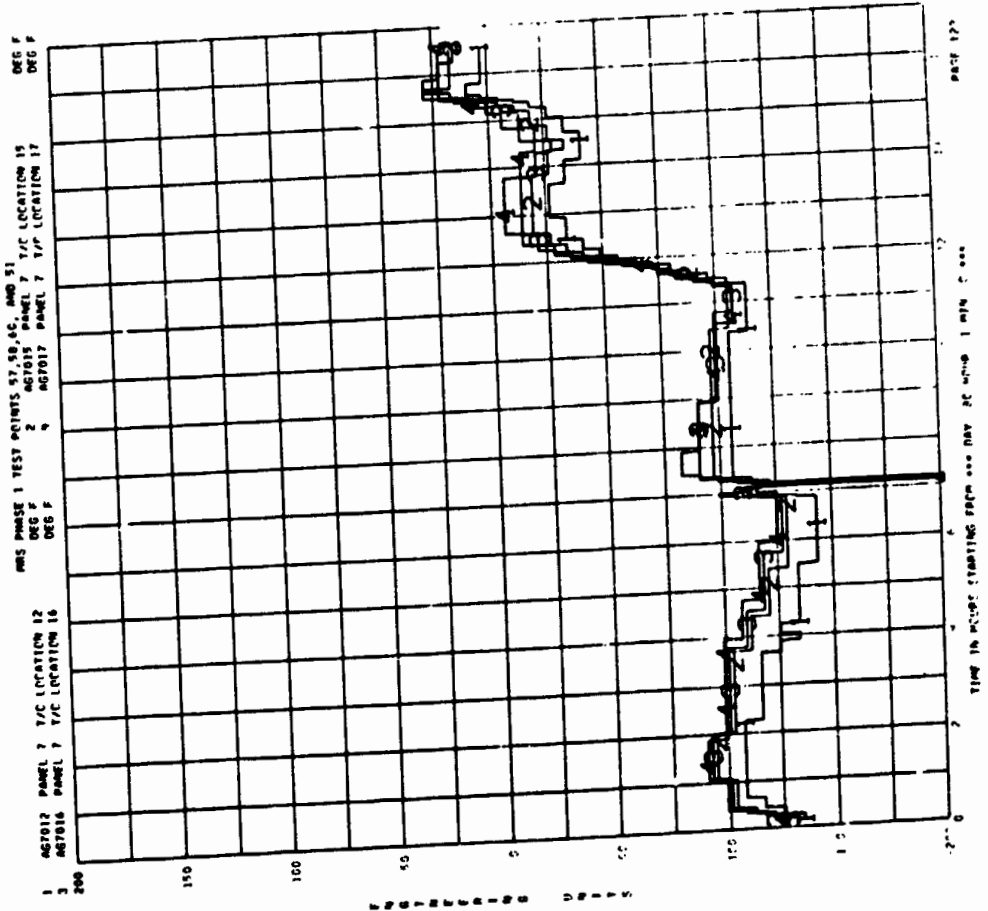
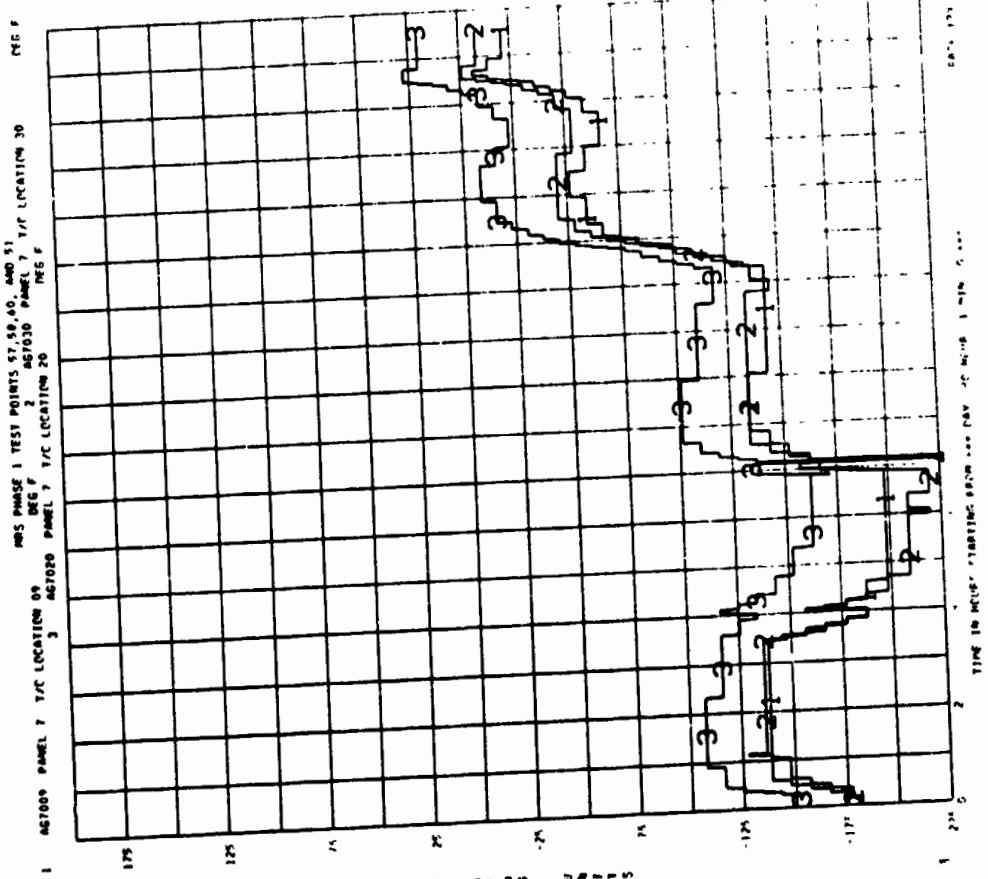
711 3:04

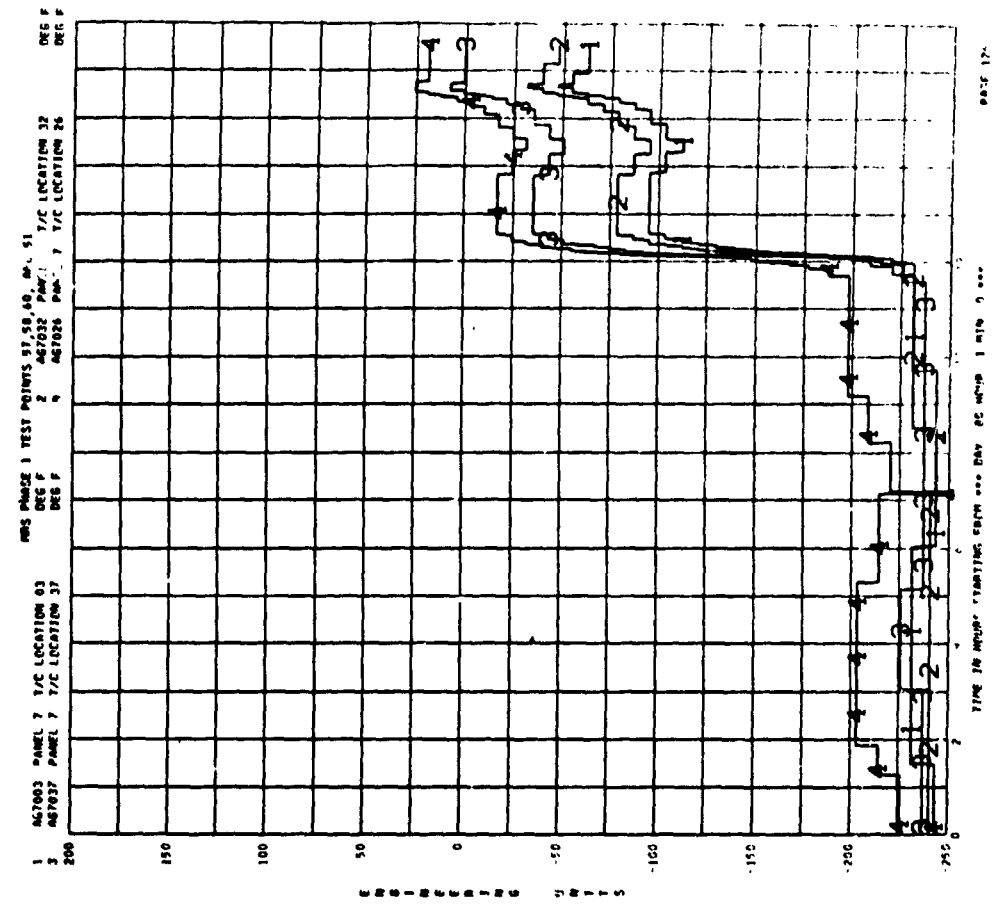
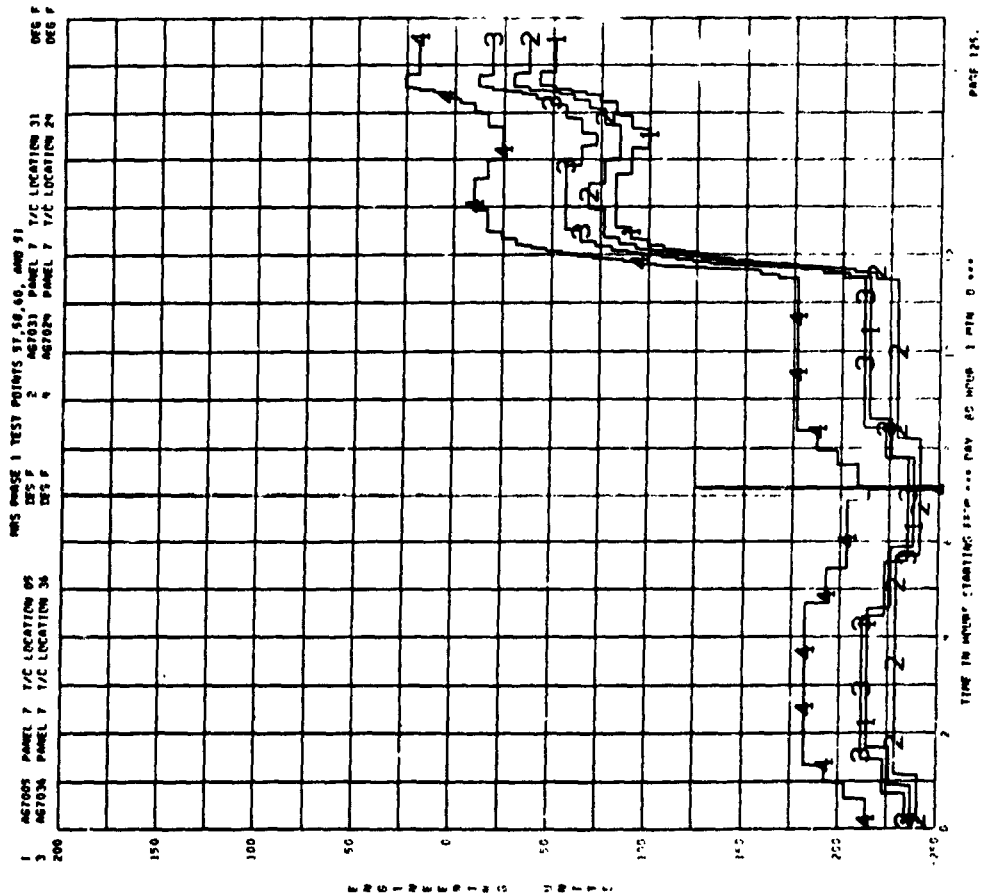


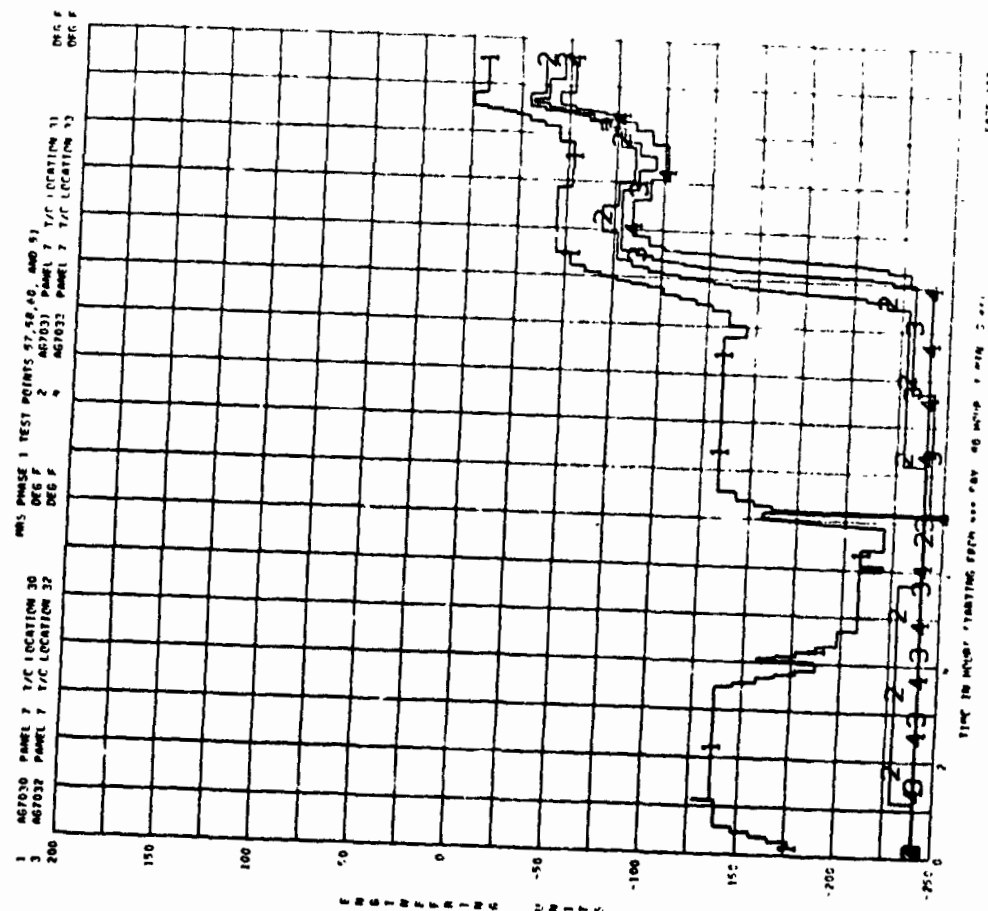
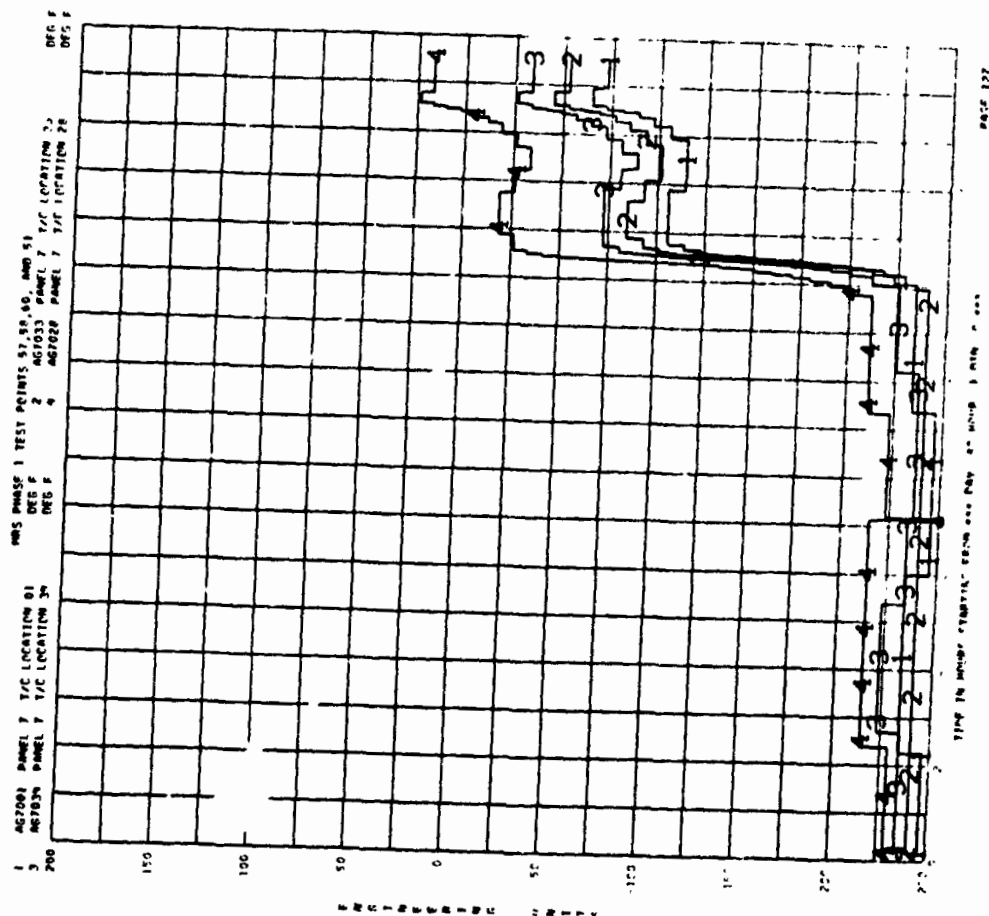








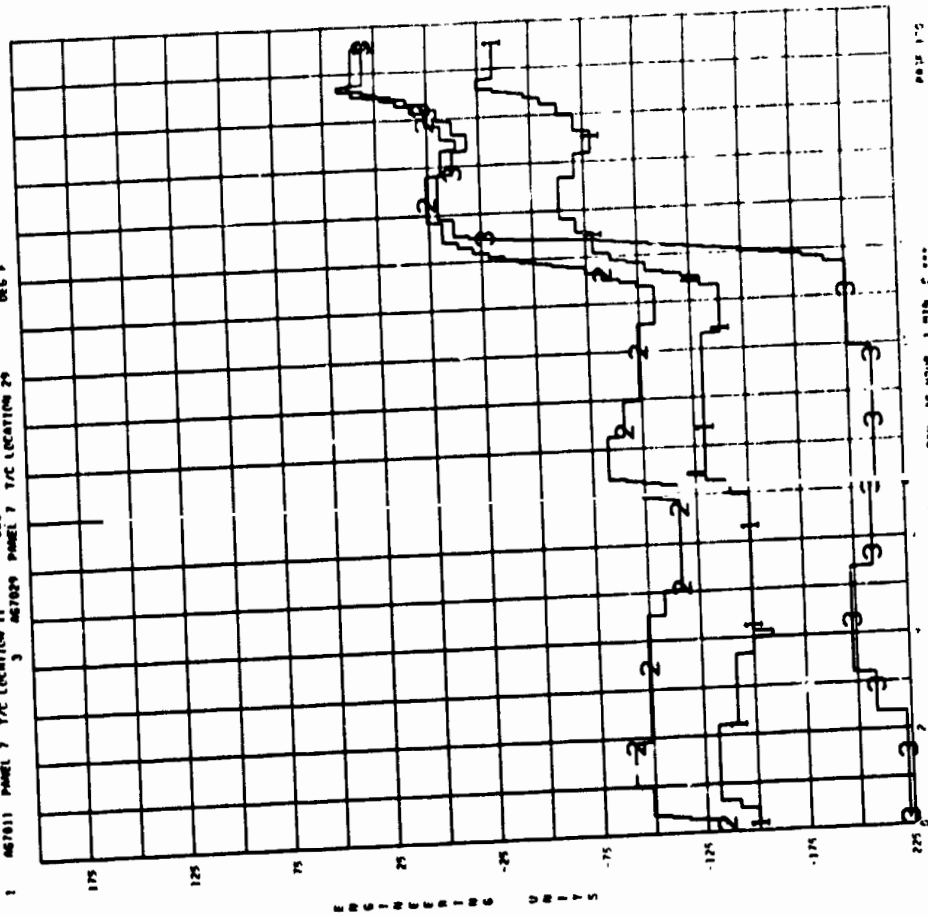




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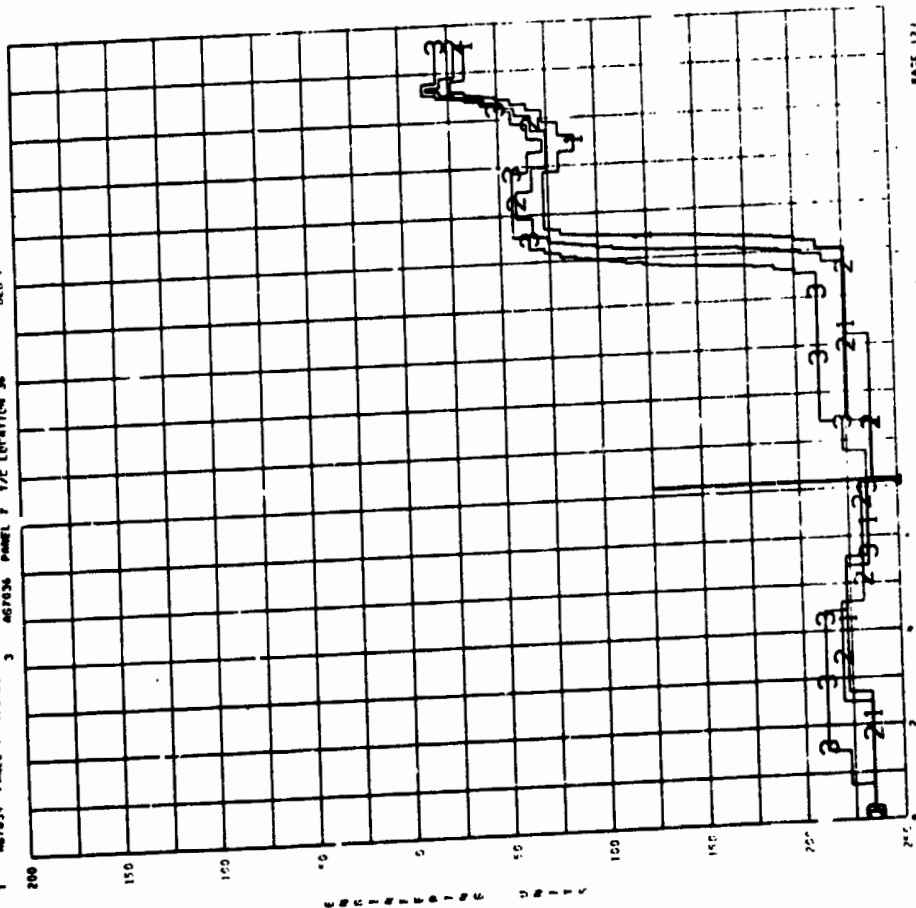
1          PANEL 7 T/C LOCATION 11      NAME= 29      DEF F
2          AC7010
3          RMS PHASE 3 TEST POINTS 37.50,60, AND 91
4          AC7010 PANEL 7 T/C LOCATION 10      DEF F

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5-1 2100

TEST POINTS	47, 50, 60, AND 51	DEF F
AGT034	PANEL 7 T/C LOCATION 34	DEF F
AGT035	PANEL 7 T/C LOCATION 35	DEF F
AGT036	PANEL 7 T/C LOCATION 36	DEF F
AGT037	PANEL 7 T/C LOCATION 37	DEF F
AGT038	PANEL 7 T/C LOCATION 38	DEF F
AGT039	PANEL 7 T/C LOCATION 39	DEF F
AGT040	PANEL 7 T/C LOCATION 40	DEF F
AGT041	PANEL 7 T/C LOCATION 41	DEF F
AGT042	PANEL 7 T/C LOCATION 42	DEF F
AGT043	PANEL 7 T/C LOCATION 43	DEF F
AGT044	PANEL 7 T/C LOCATION 44	DEF F
AGT045	PANEL 7 T/C LOCATION 45	DEF F
AGT046	PANEL 7 T/C LOCATION 46	DEF F
AGT047	PANEL 7 T/C LOCATION 47	DEF F
AGT048	PANEL 7 T/C LOCATION 48	DEF F
AGT049	PANEL 7 T/C LOCATION 49	DEF F
AGT050	PANEL 7 T/C LOCATION 50	DEF F
AGT051	PANEL 7 T/C LOCATION 51	DEF F
AGT052	PANEL 7 T/C LOCATION 52	DEF F
AGT053	PANEL 7 T/C LOCATION 53	DEF F
AGT054	PANEL 7 T/C LOCATION 54	DEF F
AGT055	PANEL 7 T/C LOCATION 55	DEF F
AGT056	PANEL 7 T/C LOCATION 56	DEF F
AGT057	PANEL 7 T/C LOCATION 57	DEF F
AGT058	PANEL 7 T/C LOCATION 58	DEF F
AGT059	PANEL 7 T/C LOCATION 59	DEF F
AGT060	PANEL 7 T/C LOCATION 60	DEF F
AGT061	PANEL 7 T/C LOCATION 61	DEF F
AGT062	PANEL 7 T/C LOCATION 62	DEF F
AGT063	PANEL 7 T/C LOCATION 63	DEF F
AGT064	PANEL 7 T/C LOCATION 64	DEF F
AGT065	PANEL 7 T/C LOCATION 65	DEF F
AGT066	PANEL 7 T/C LOCATION 66	DEF F
AGT067	PANEL 7 T/C LOCATION 67	DEF F
AGT068	PANEL 7 T/C LOCATION 68	DEF F
AGT069	PANEL 7 T/C LOCATION 69	DEF F
AGT070	PANEL 7 T/C LOCATION 70	DEF F
AGT071	PANEL 7 T/C LOCATION 71	DEF F
AGT072	PANEL 7 T/C LOCATION 72	DEF F
AGT073	PANEL 7 T/C LOCATION 73	DEF F
AGT074	PANEL 7 T/C LOCATION 74	DEF F
AGT075	PANEL 7 T/C LOCATION 75	DEF F
AGT076	PANEL 7 T/C LOCATION 76	DEF F
AGT077	PANEL 7 T/C LOCATION 77	DEF F
AGT078	PANEL 7 T/C LOCATION 78	DEF F
AGT079	PANEL 7 T/C LOCATION 79	DEF F
AGT080	PANEL 7 T/C LOCATION 80	DEF F
AGT081	PANEL 7 T/C LOCATION 81	DEF F
AGT082	PANEL 7 T/C LOCATION 82	DEF F
AGT083	PANEL 7 T/C LOCATION 83	DEF F
AGT084	PANEL 7 T/C LOCATION 84	DEF F
AGT085	PANEL 7 T/C LOCATION 85	DEF F
AGT086	PANEL 7 T/C LOCATION 86	DEF F
AGT087	PANEL 7 T/C LOCATION 87	DEF F
AGT088	PANEL 7 T/C LOCATION 88	DEF F
AGT089	PANEL 7 T/C LOCATION 89	DEF F
AGT090	PANEL 7 T/C LOCATION 90	DEF F
AGT091	PANEL 7 T/C LOCATION 91	DEF F
AGT092	PANEL 7 T/C LOCATION 92	DEF F
AGT093	PANEL 7 T/C LOCATION 93	DEF F
AGT094	PANEL 7 T/C LOCATION 94	DEF F
AGT095	PANEL 7 T/C LOCATION 95	DEF F
AGT096	PANEL 7 T/C LOCATION 96	DEF F
AGT097	PANEL 7 T/C LOCATION 97	DEF F
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AGT100	PANEL 7 T/C LOCATION 100	DEF F

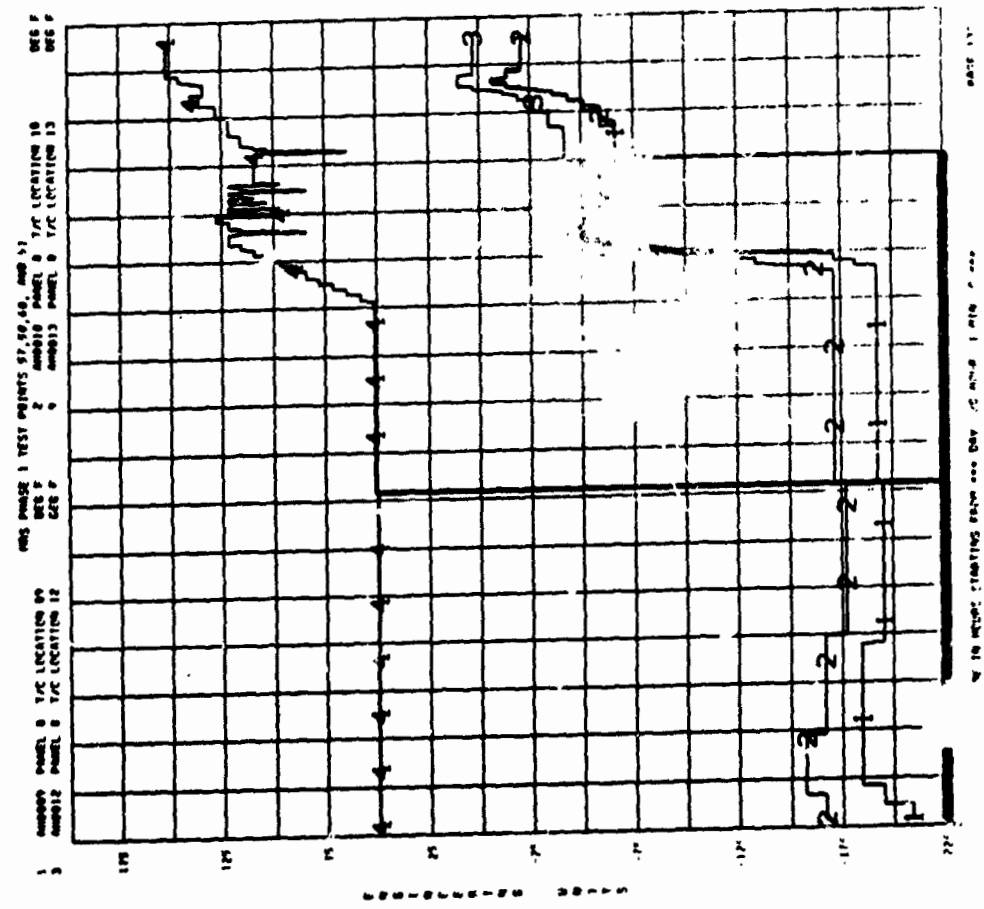
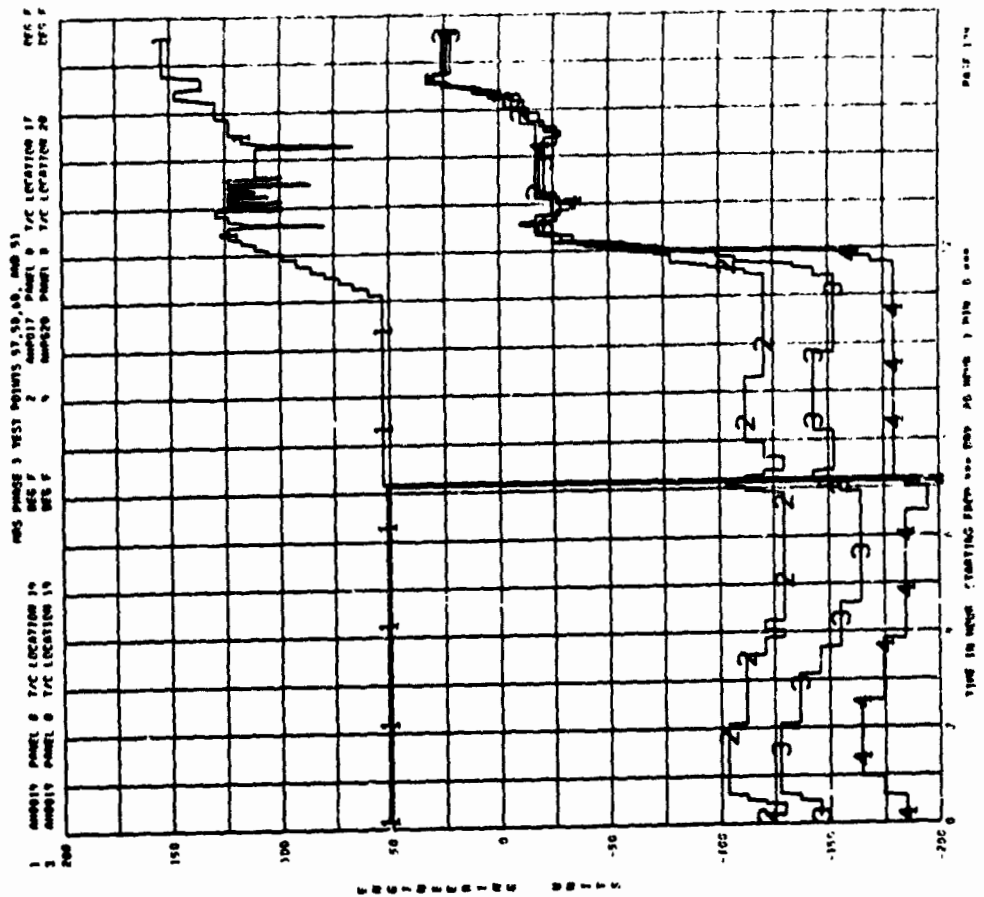


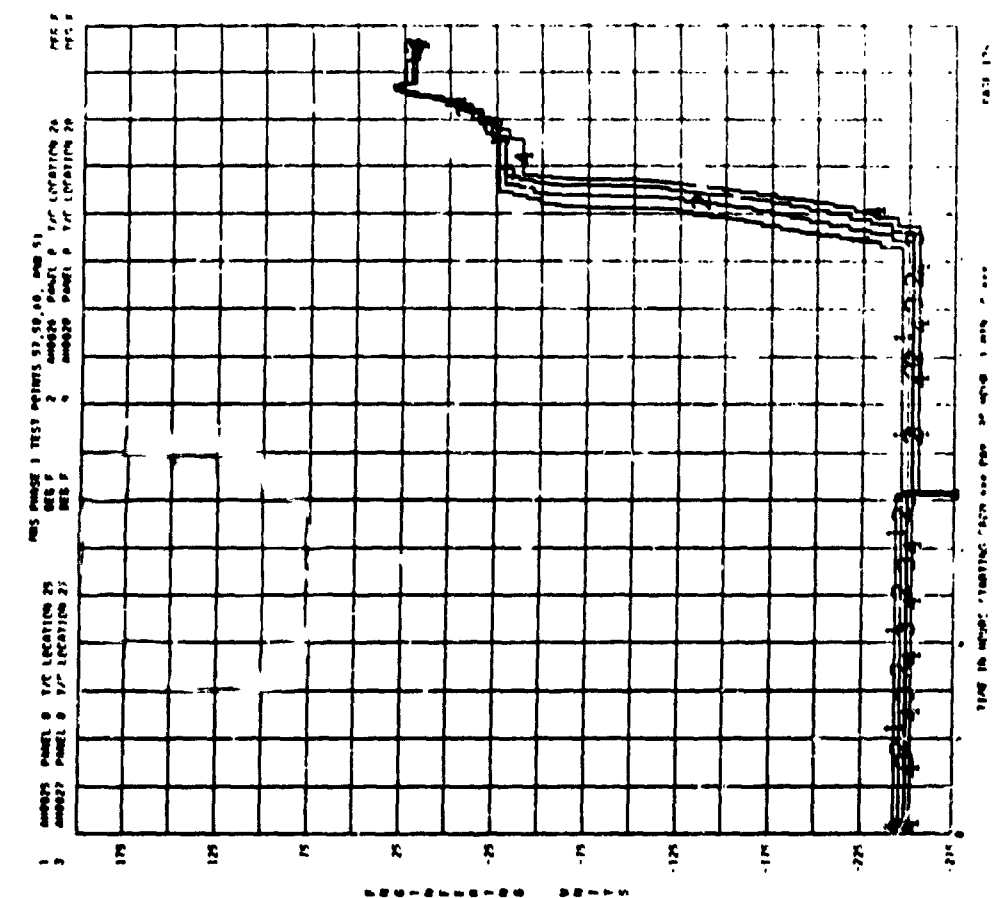
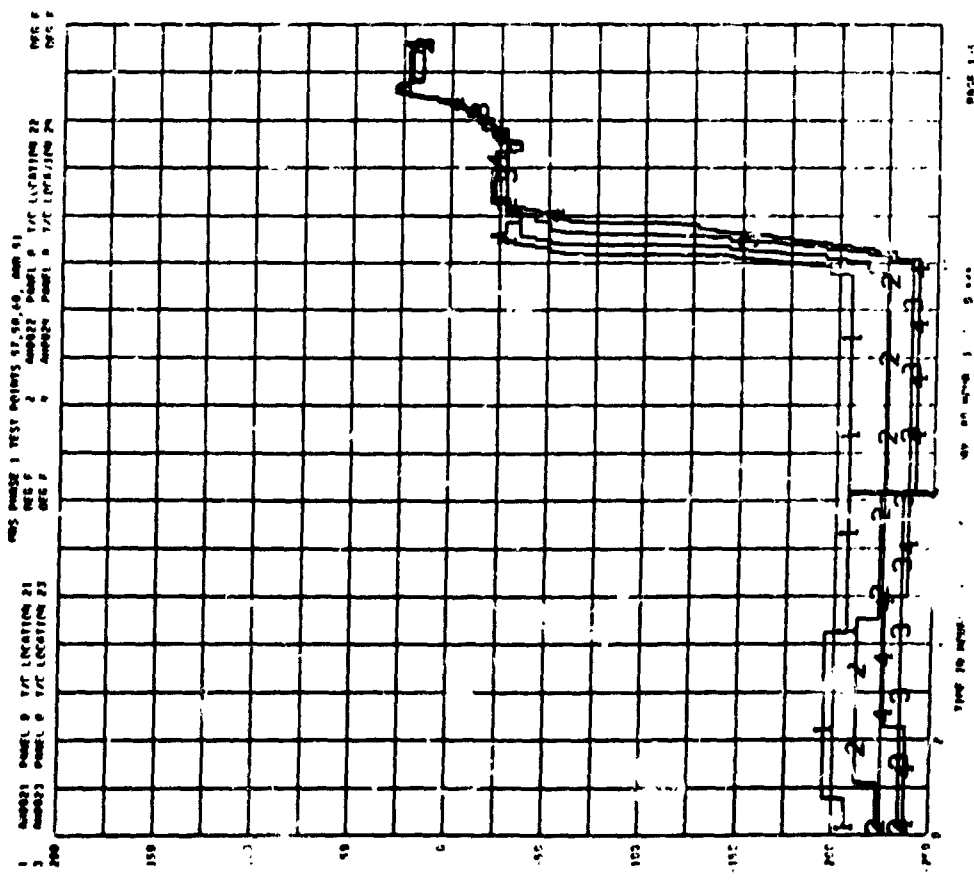
121 121

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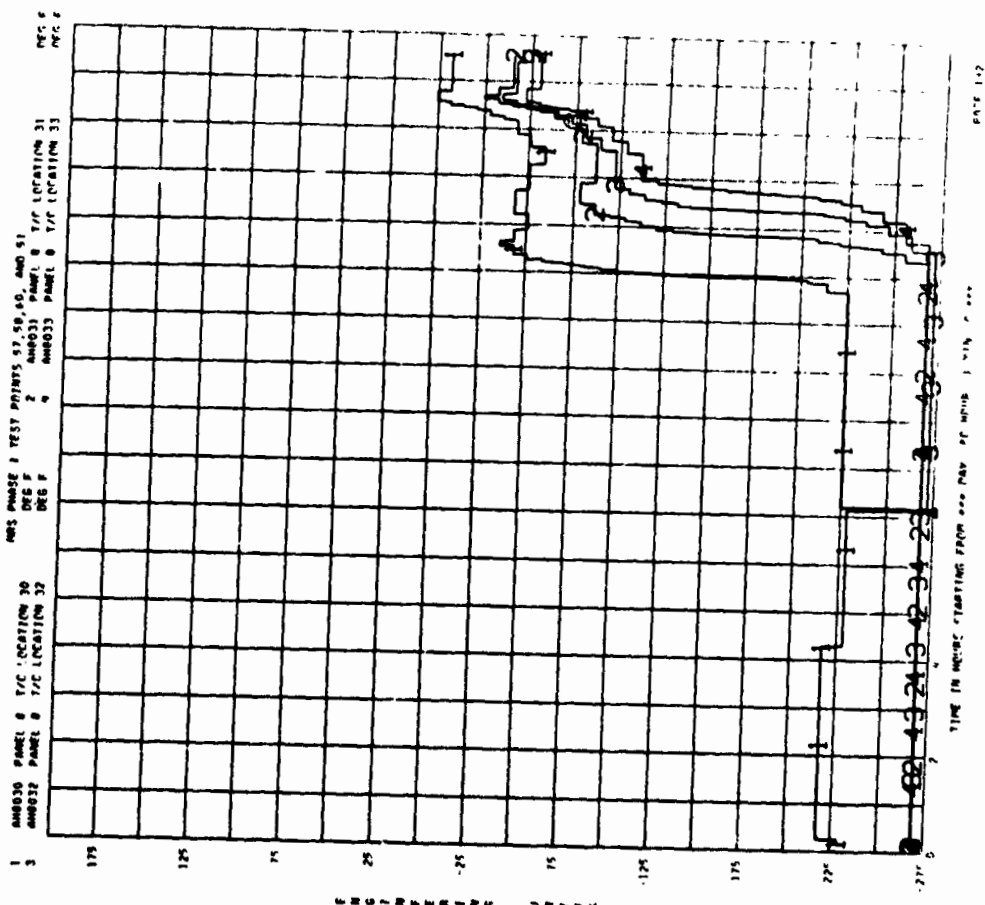
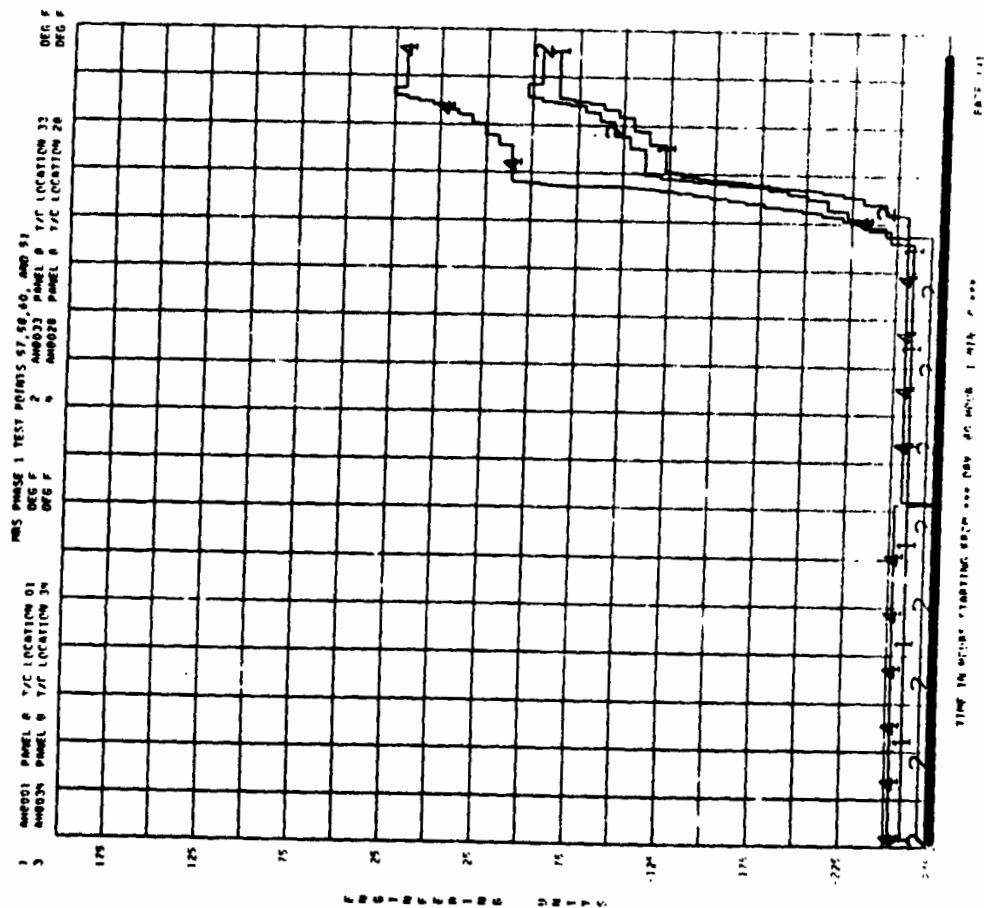






6-1 3:00

**THE**



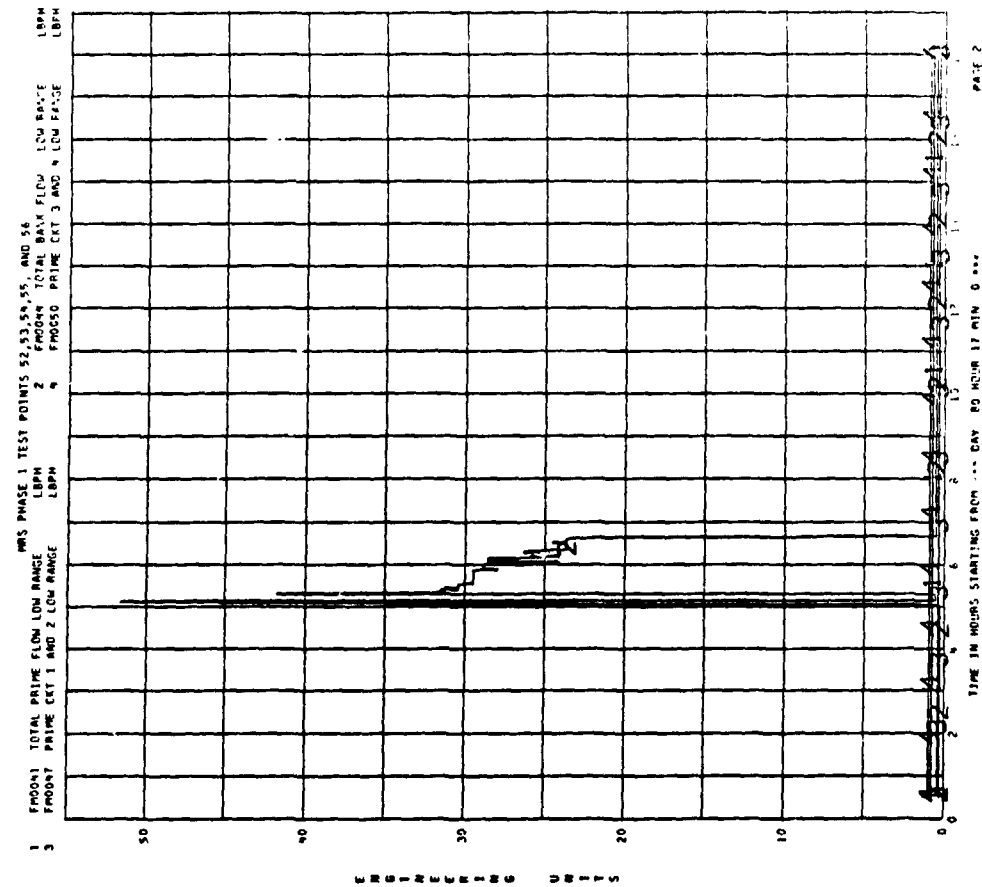
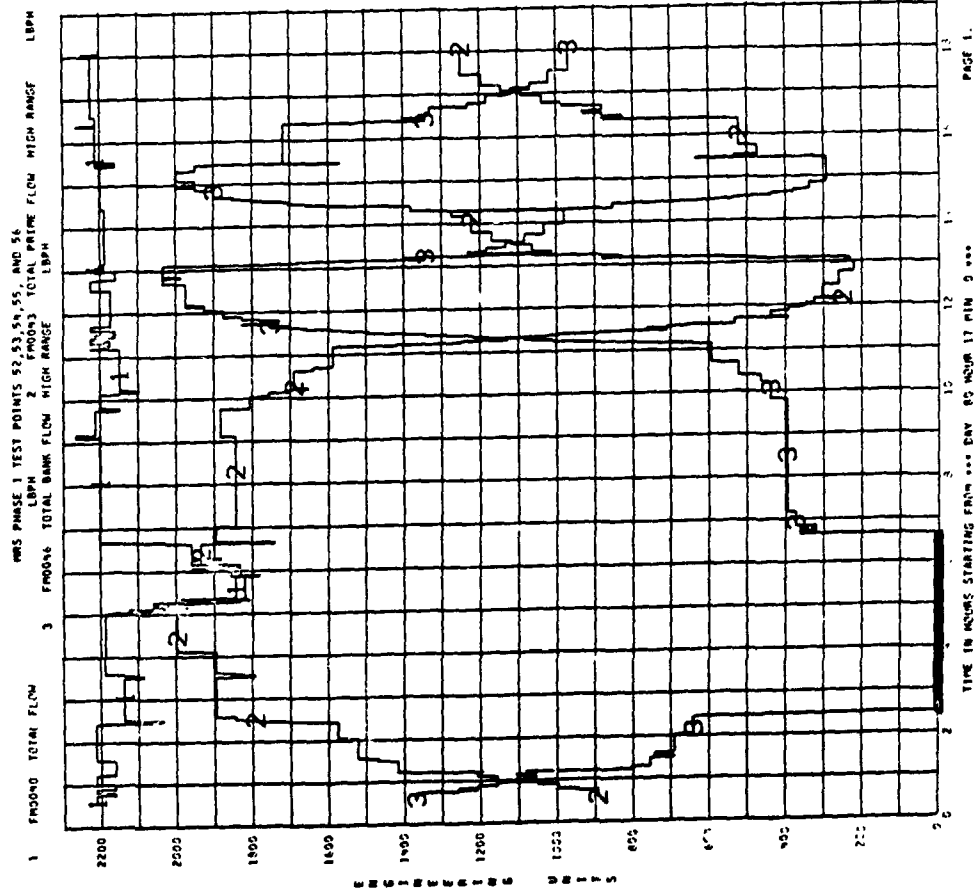


TEST GROUP L

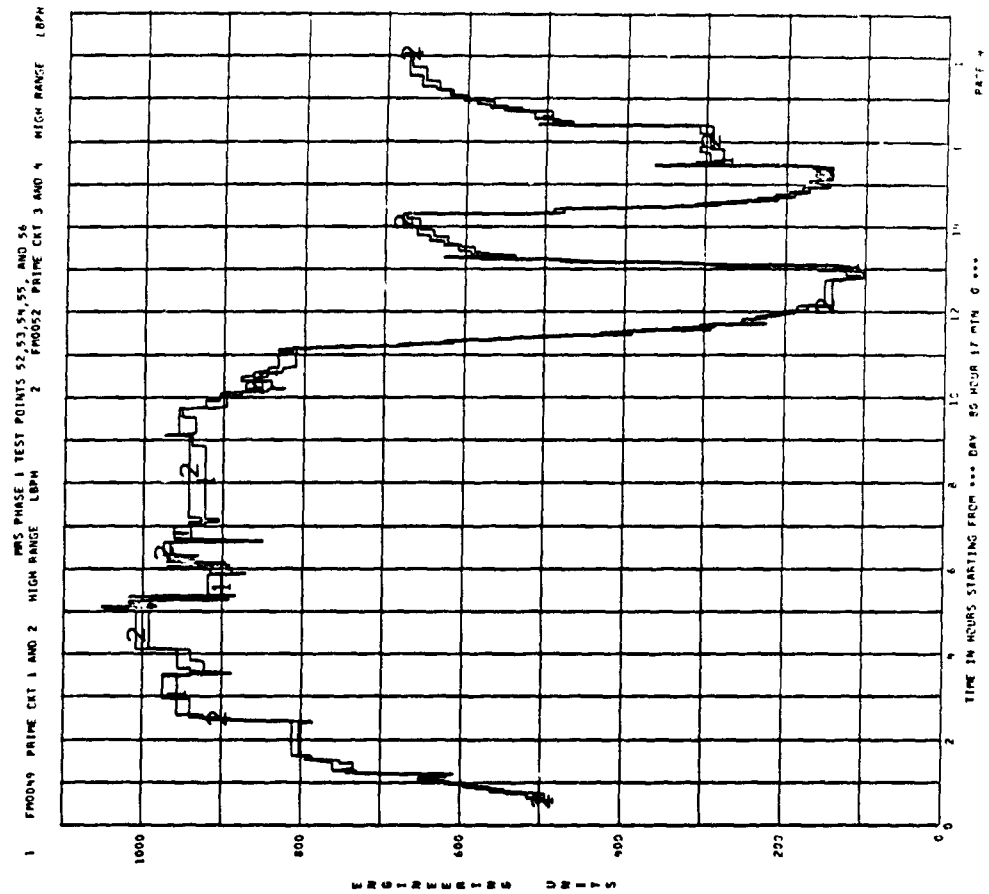
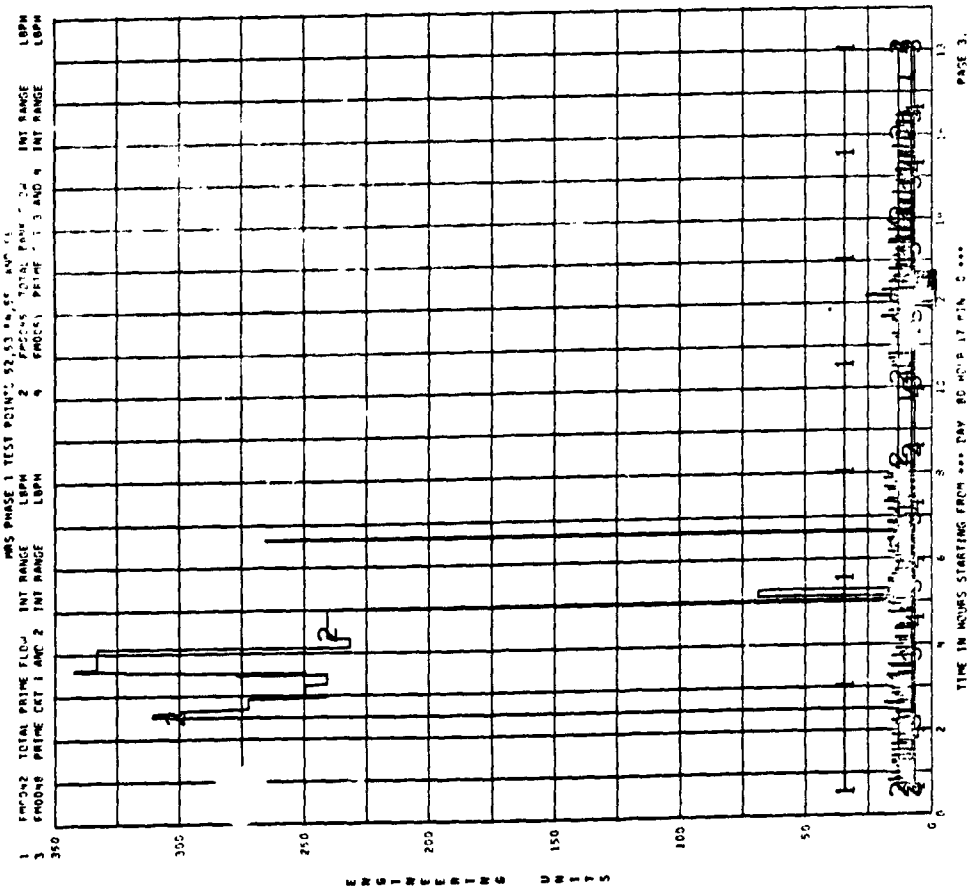
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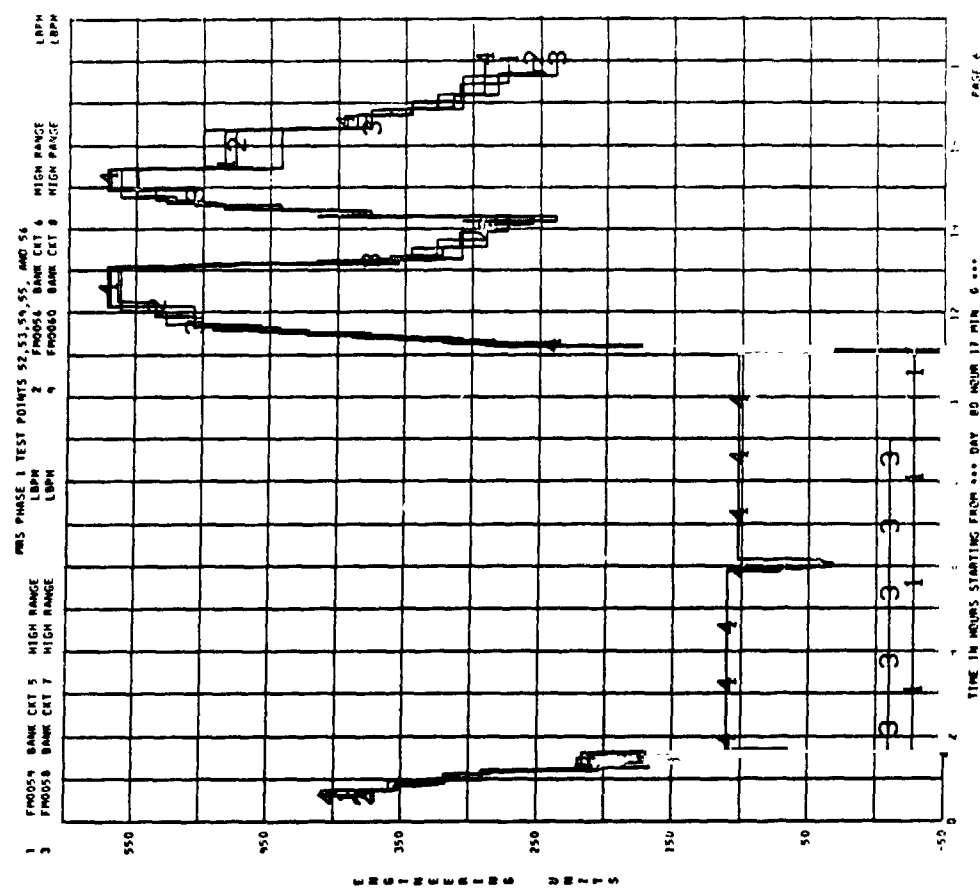
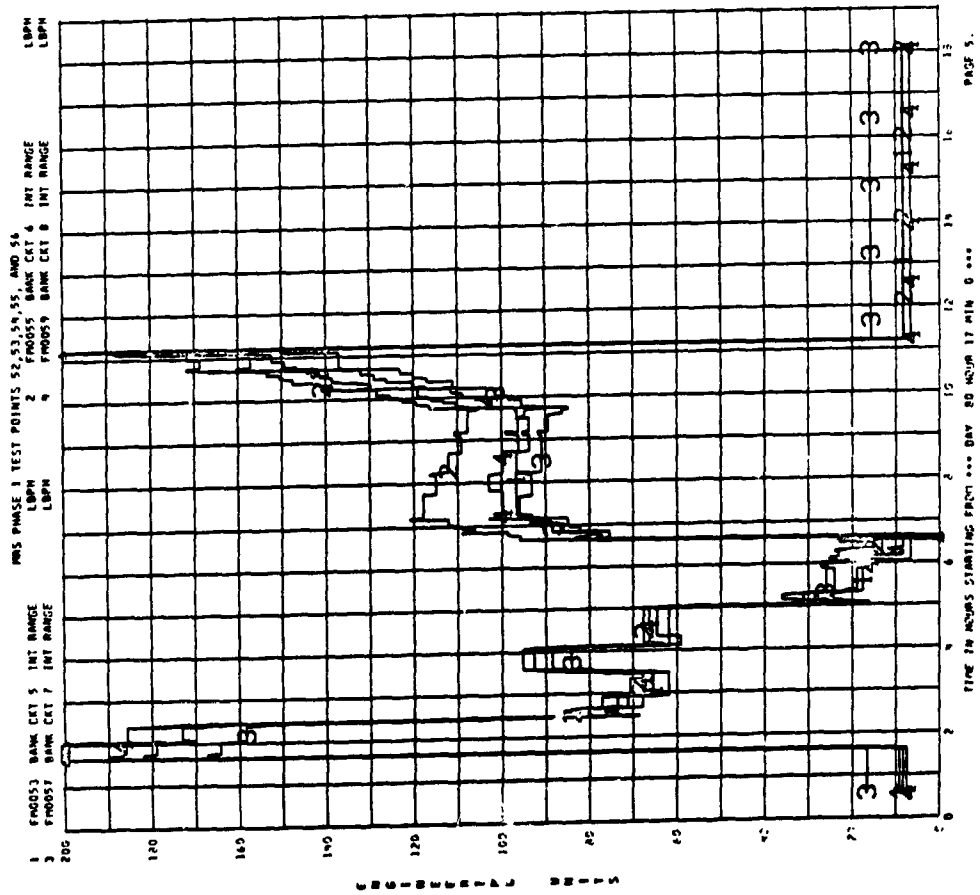
INCLUDES TEST POINTS

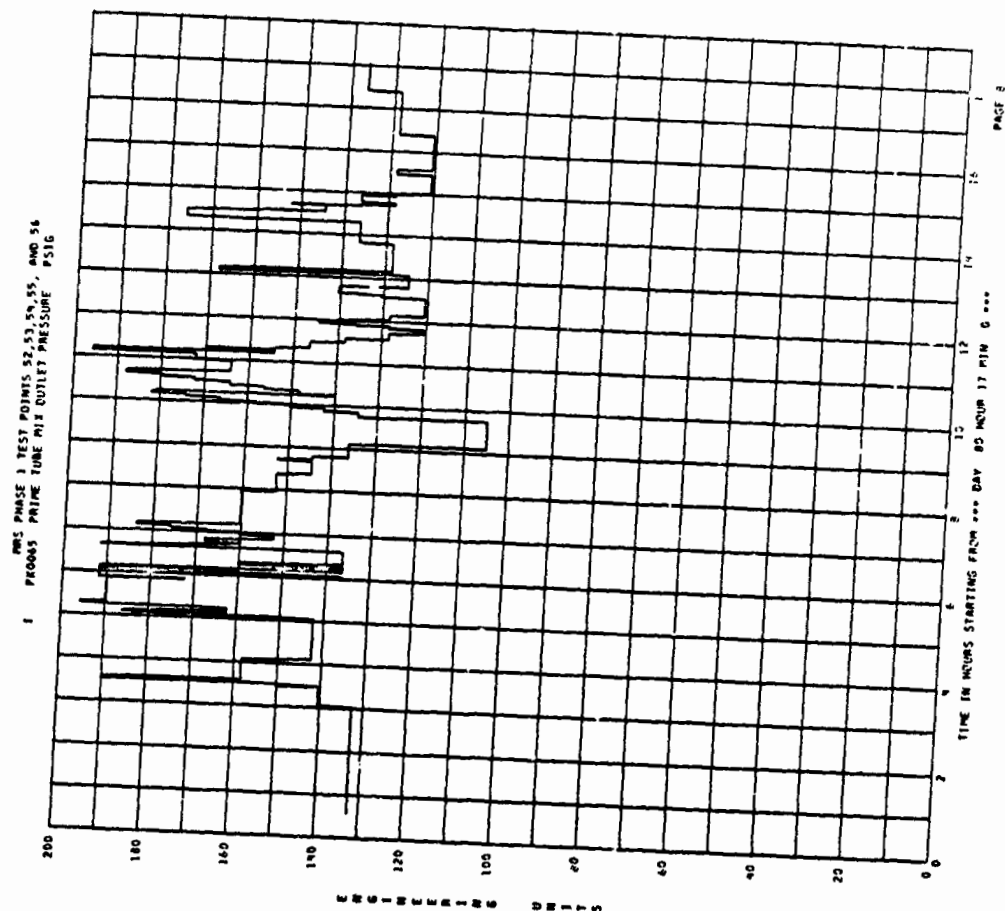
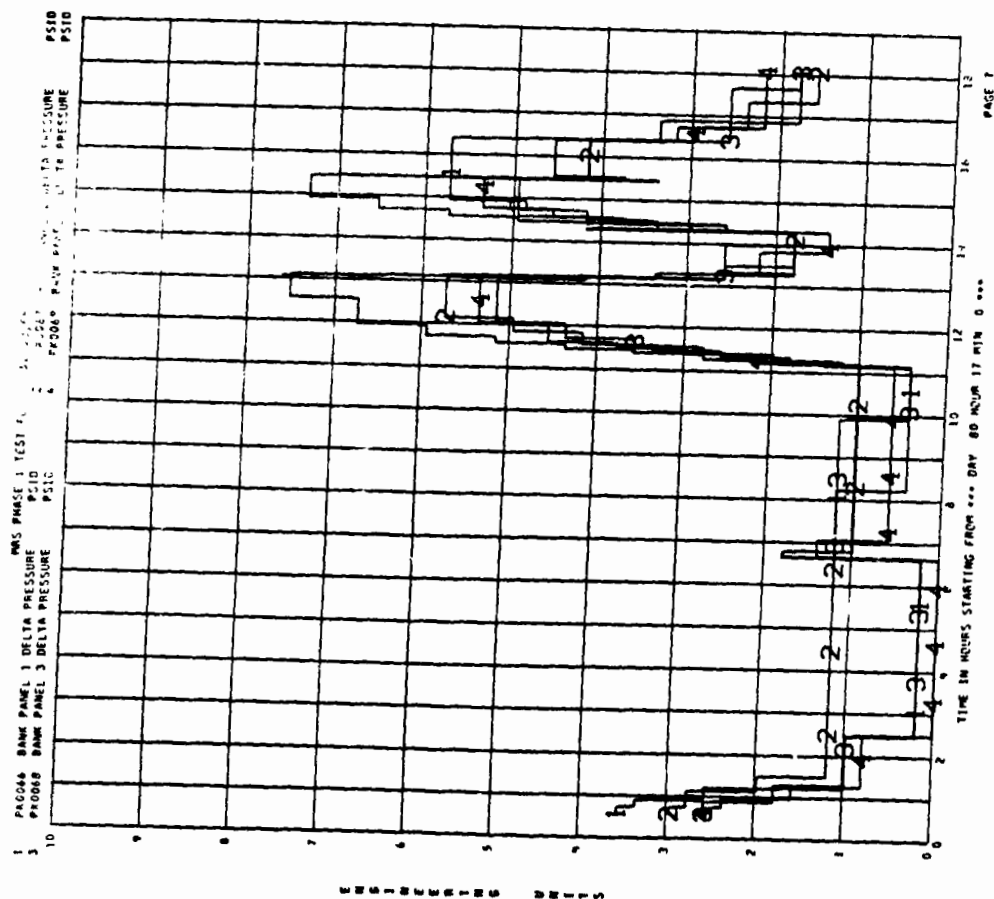
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54  
55  
56

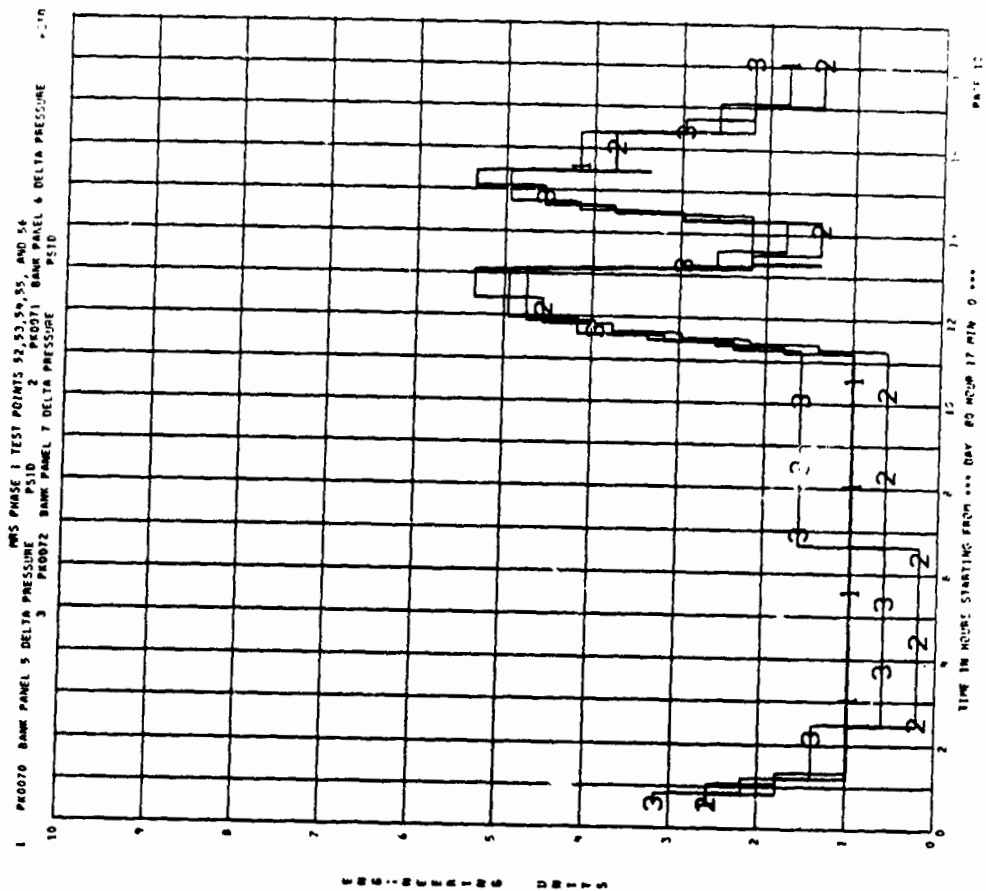
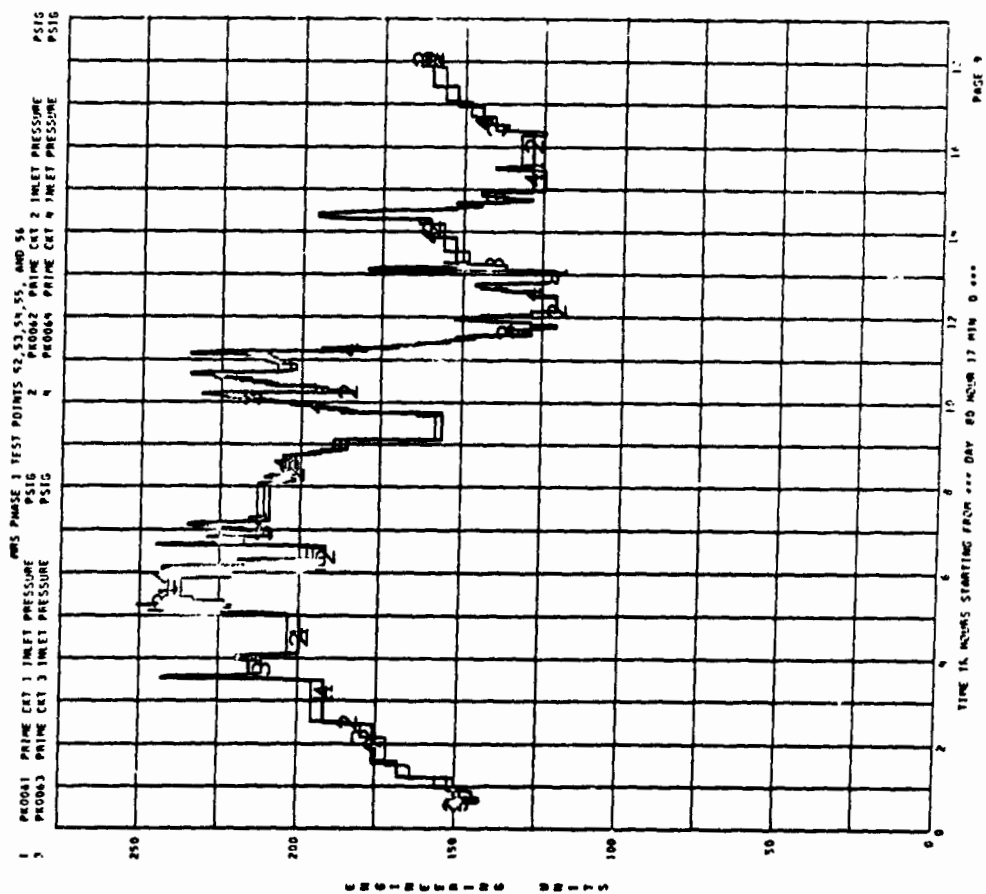




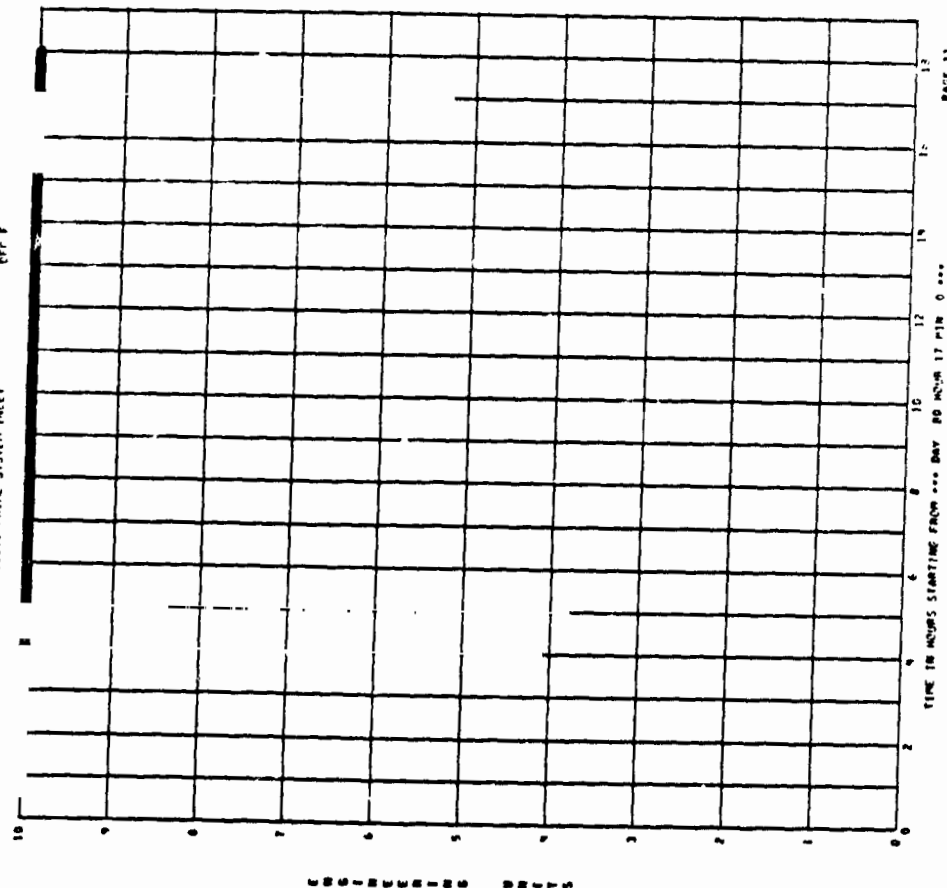






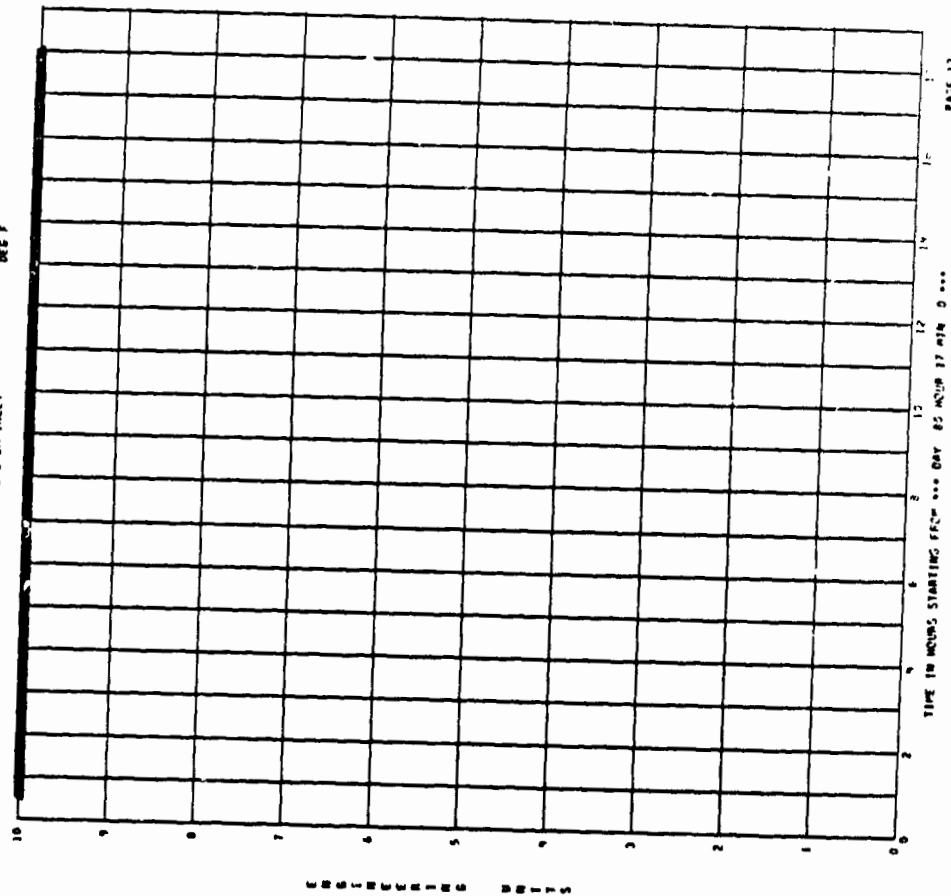


PHASE 1 TEST POINTS 52, 53, 54, 55, AND 56  
 1 A10001 PRIME SYSTEM INLET



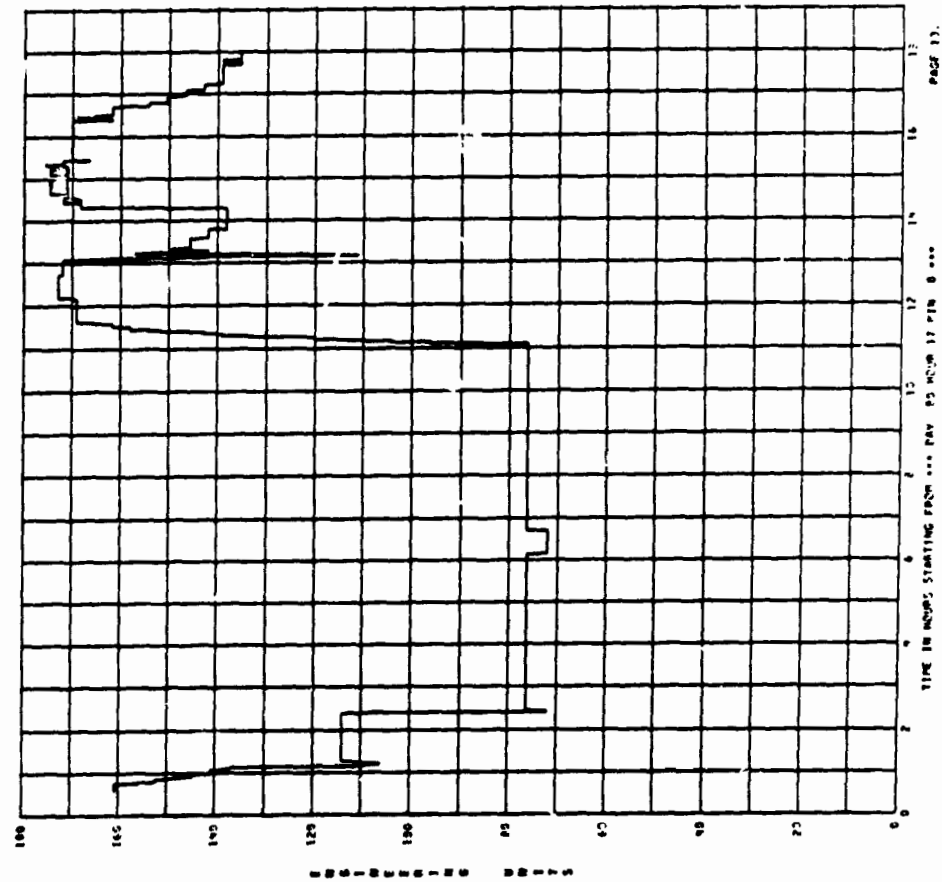
PAGE 11.

PHASE 1 TEST POINTS 52, 53, 54, 55, AND 56  
 1 A10002 BAK SYSTEM INLET

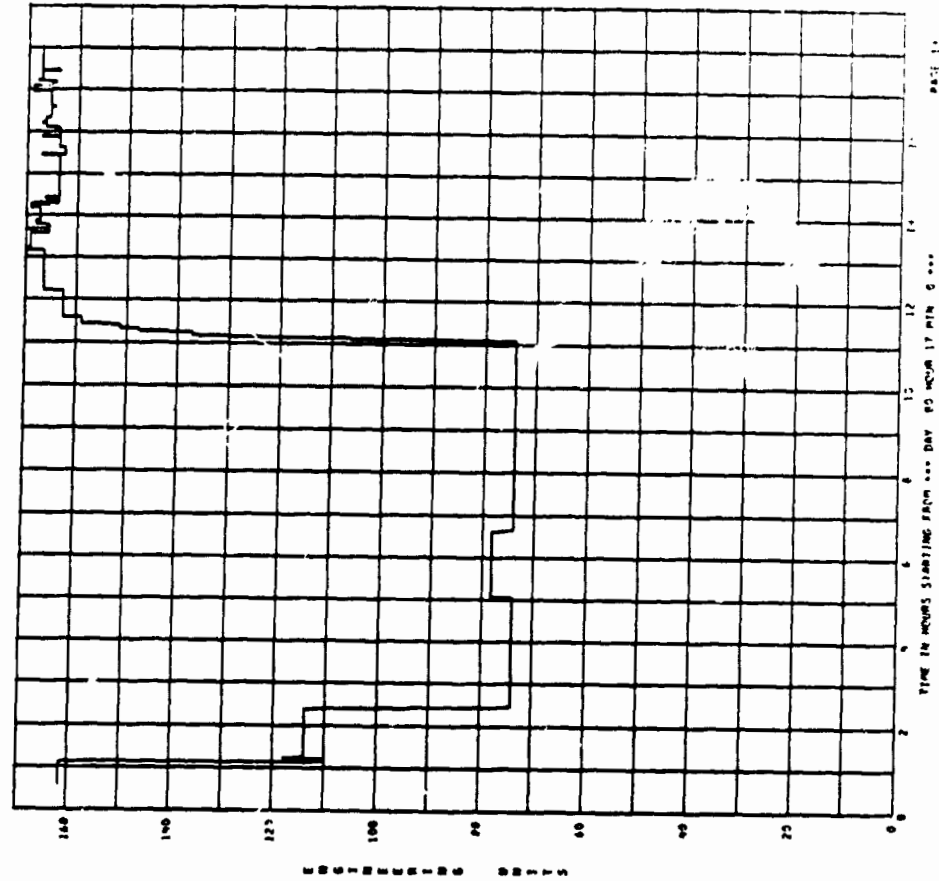


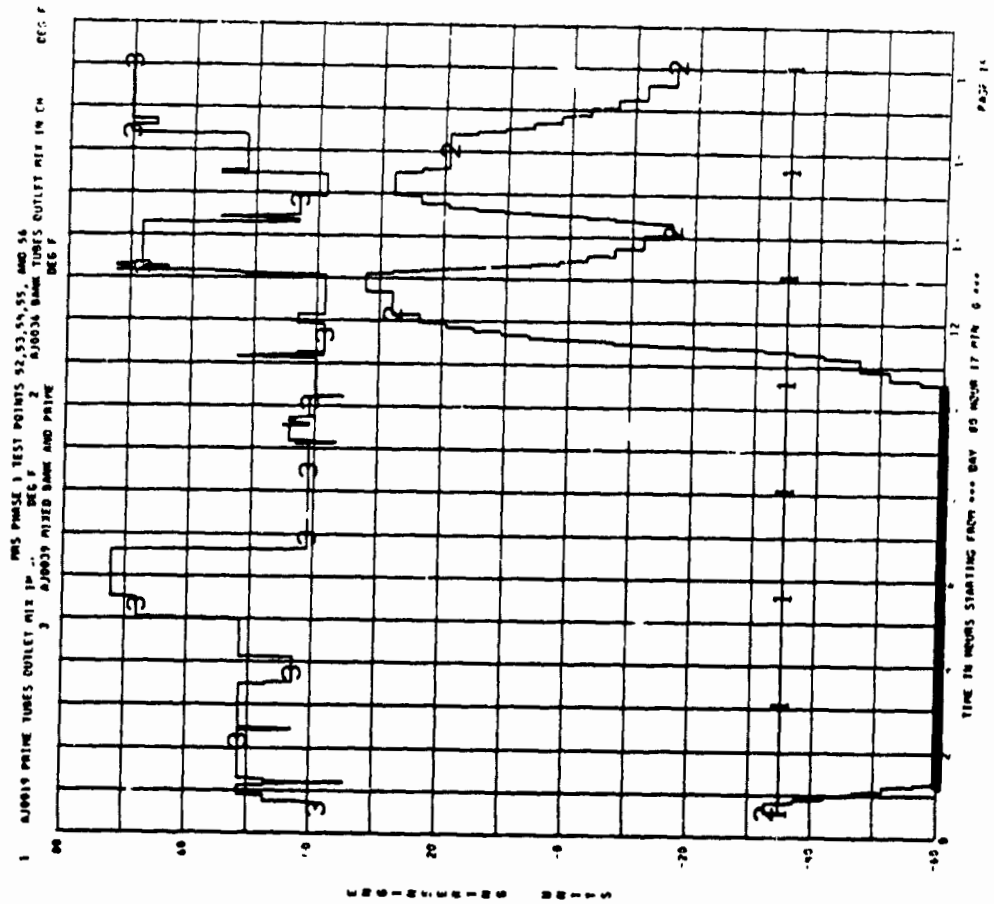
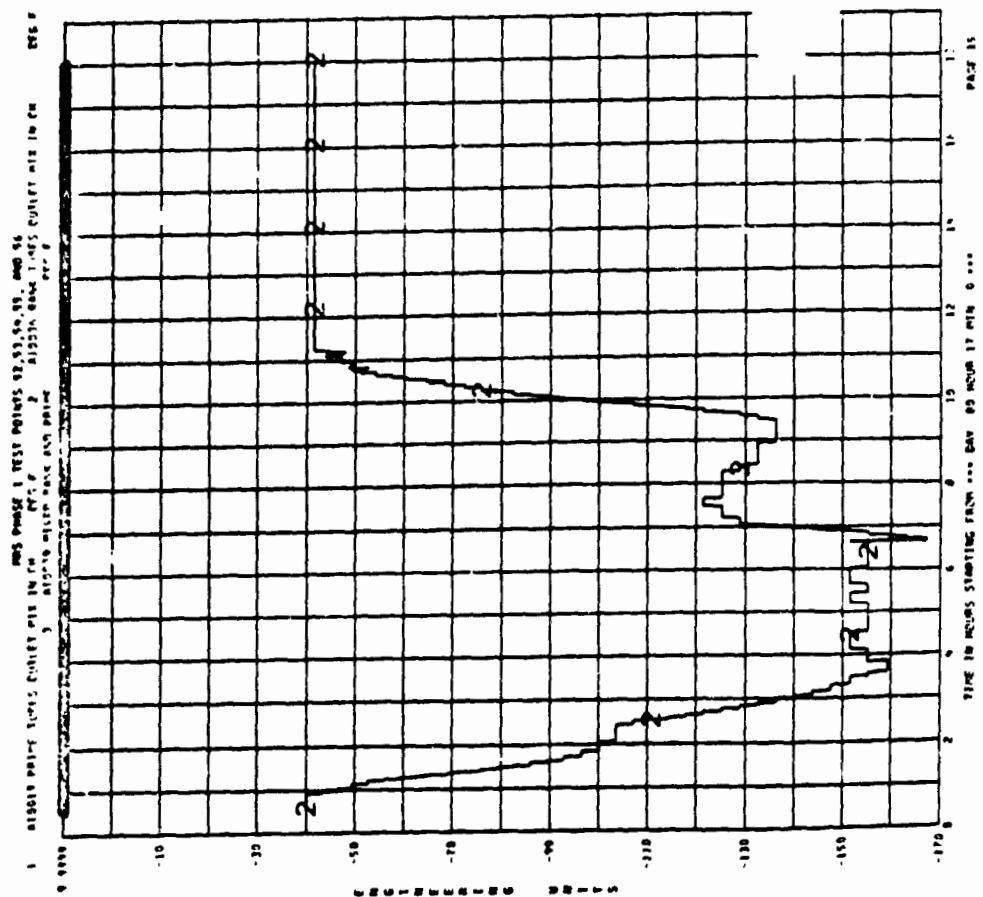
PAGE 12

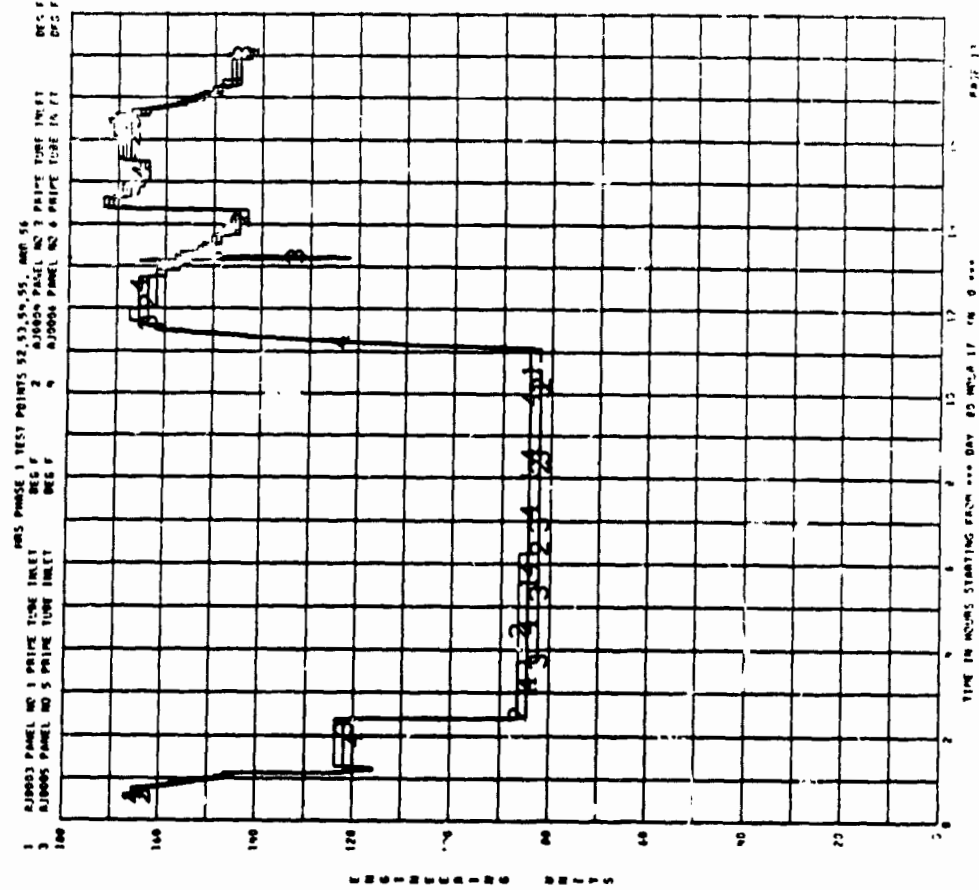
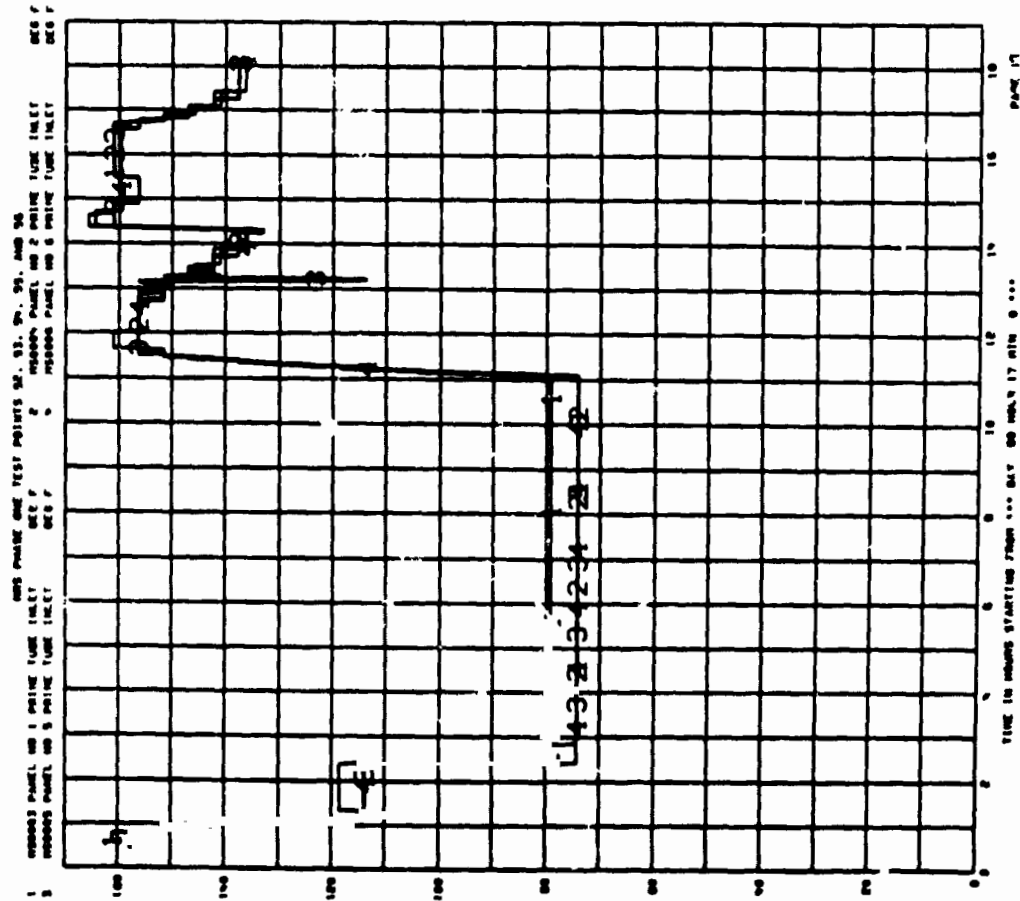
PHASE 1 TEST POINTS 52, 53, 54, 55, AND 56  
 1 010001 PINE SYSTEM INLET



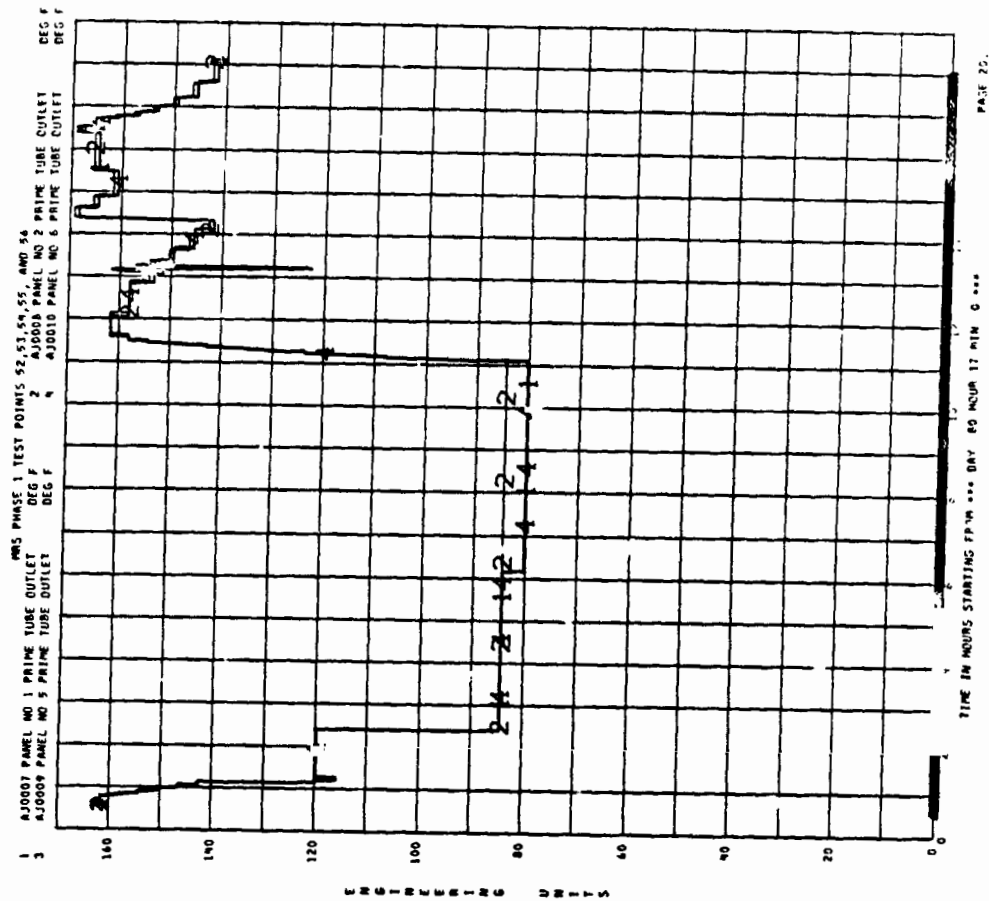
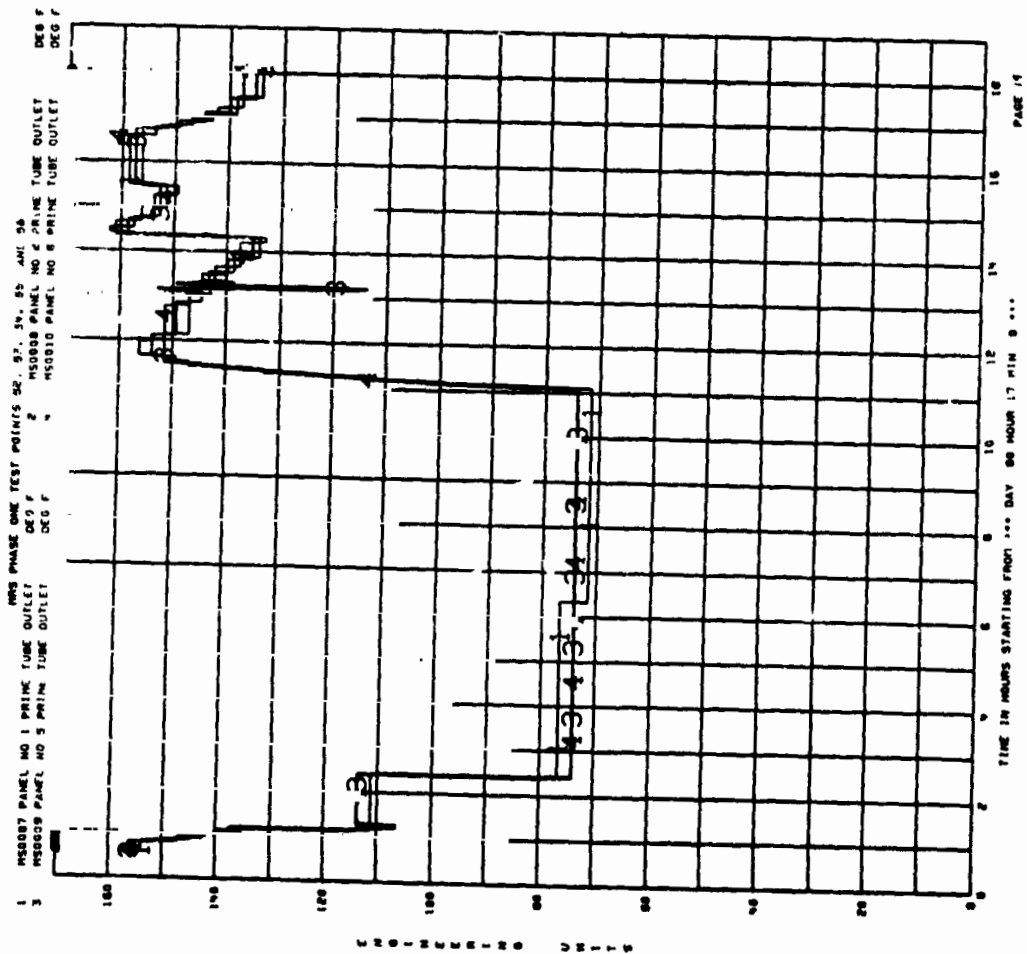
PHASE 1 TEST POINTS 52, 53, 54, 55, AND 56  
 1 010002 BANN SYSTEM INLET



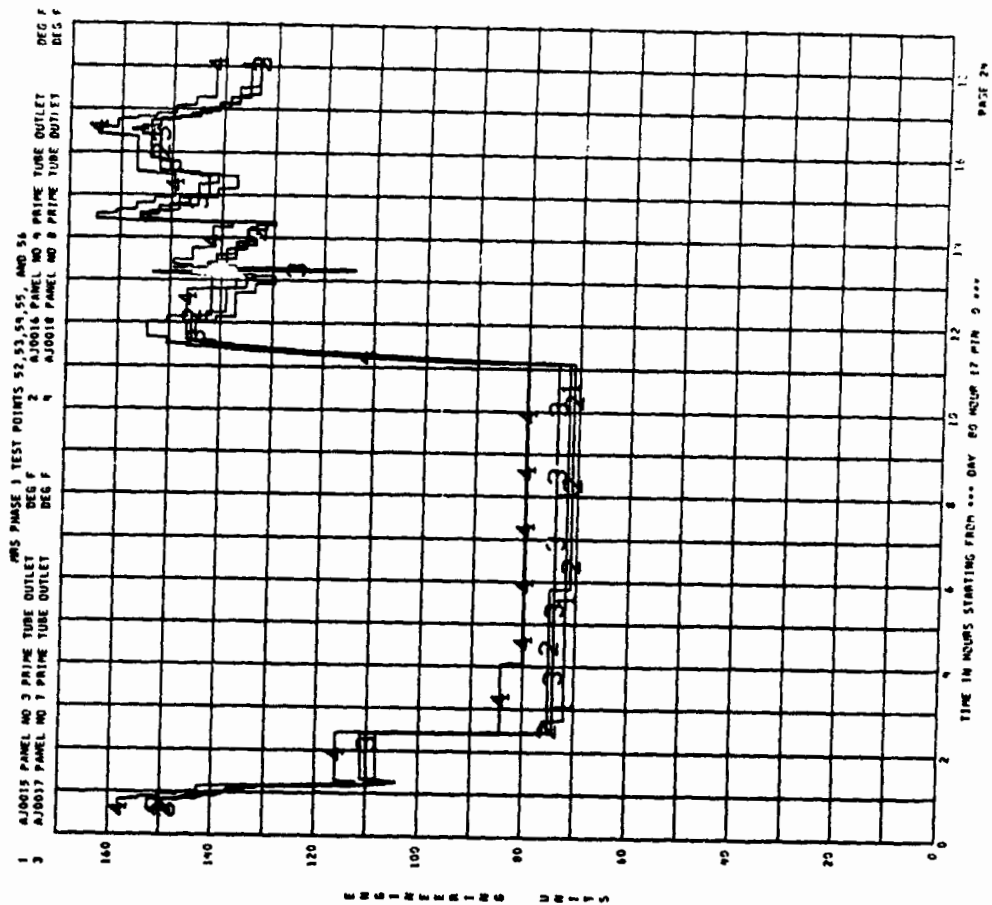
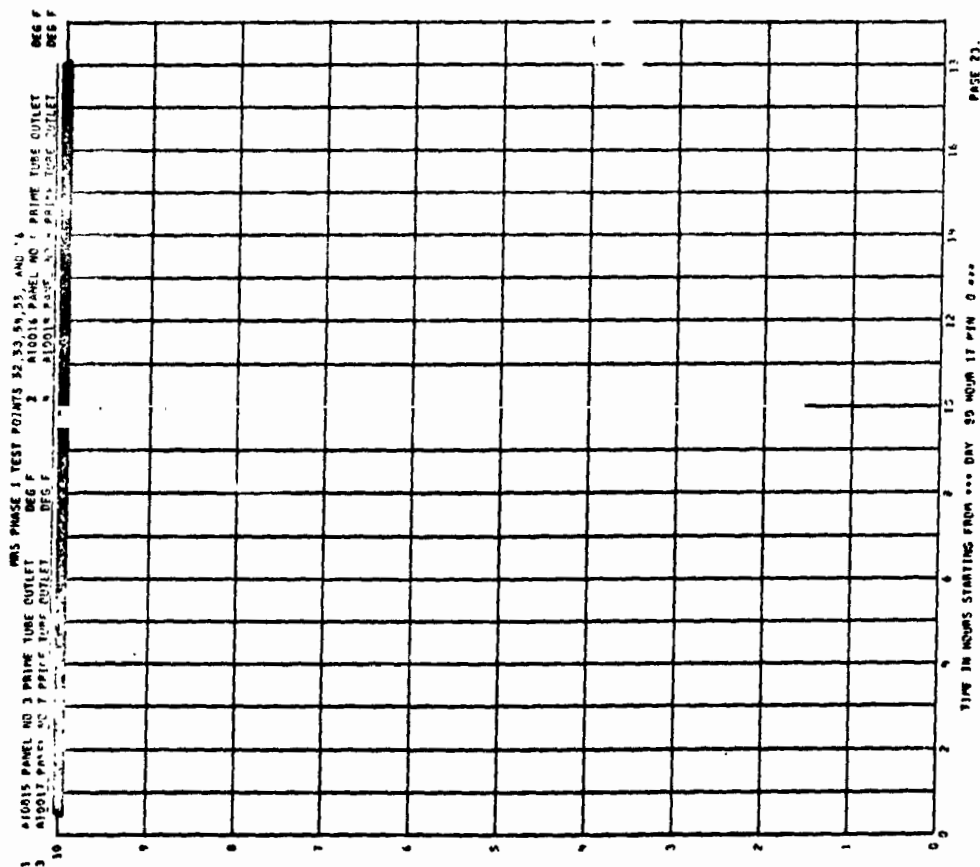


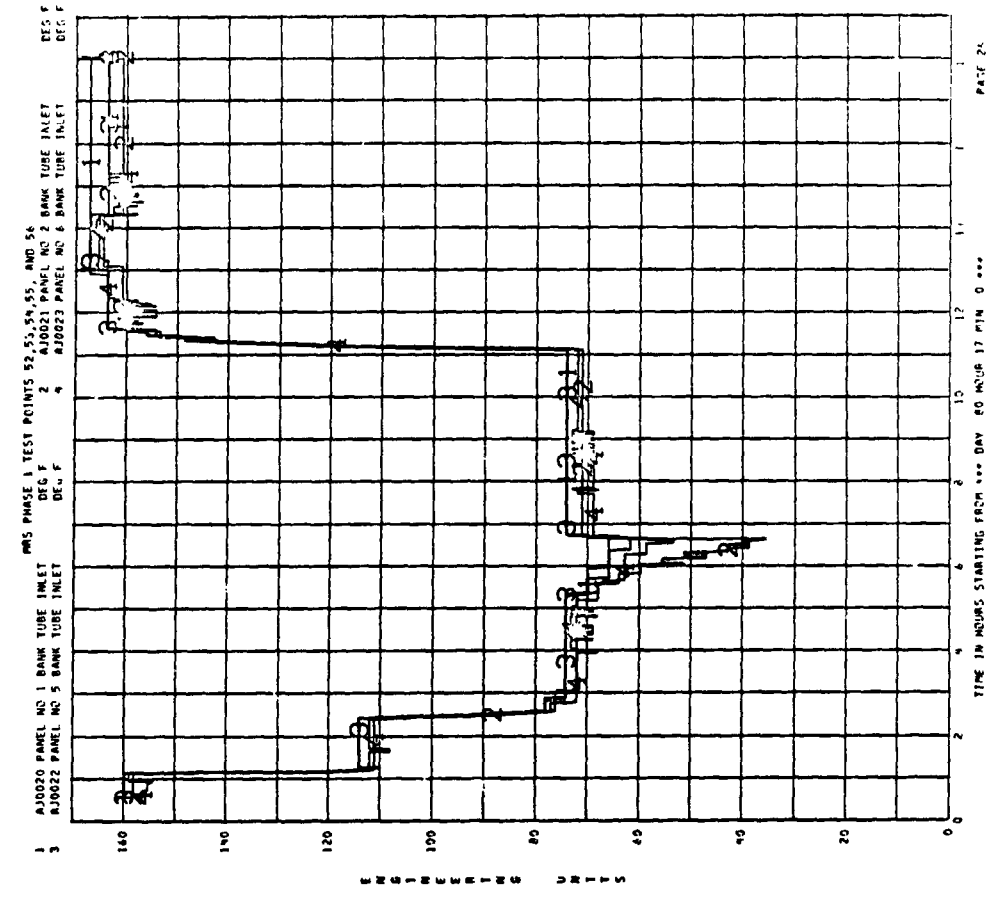
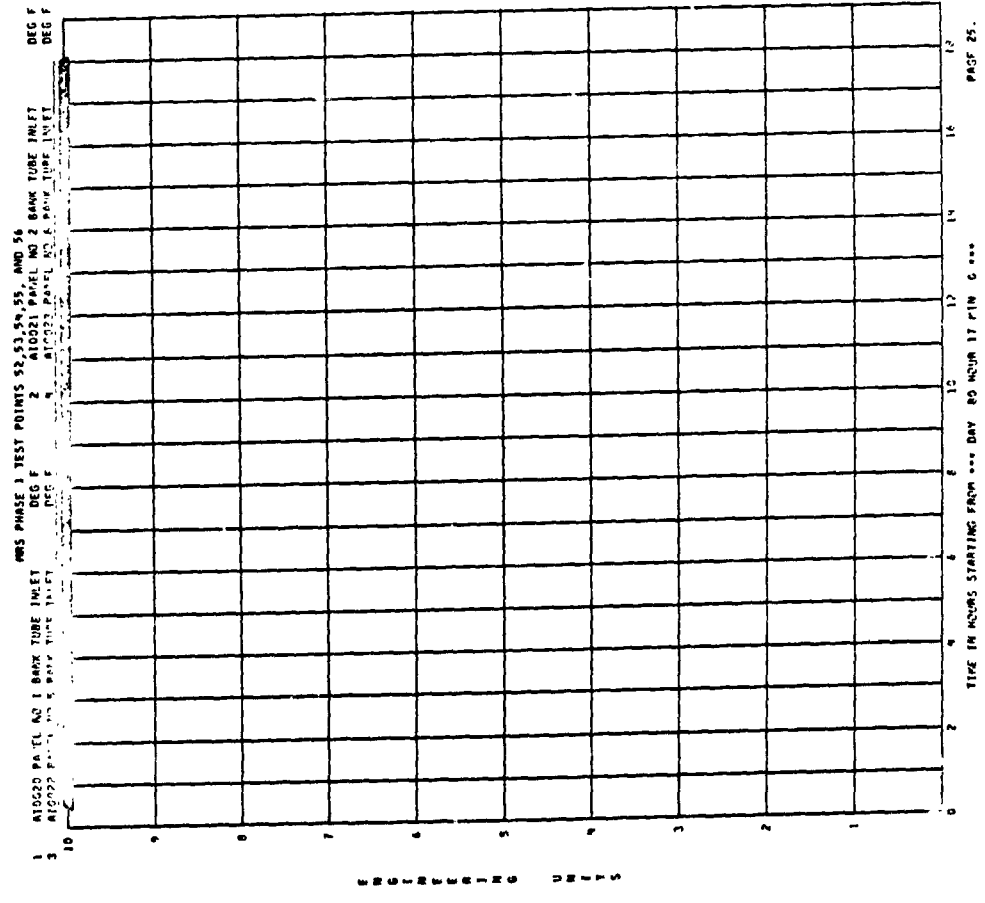


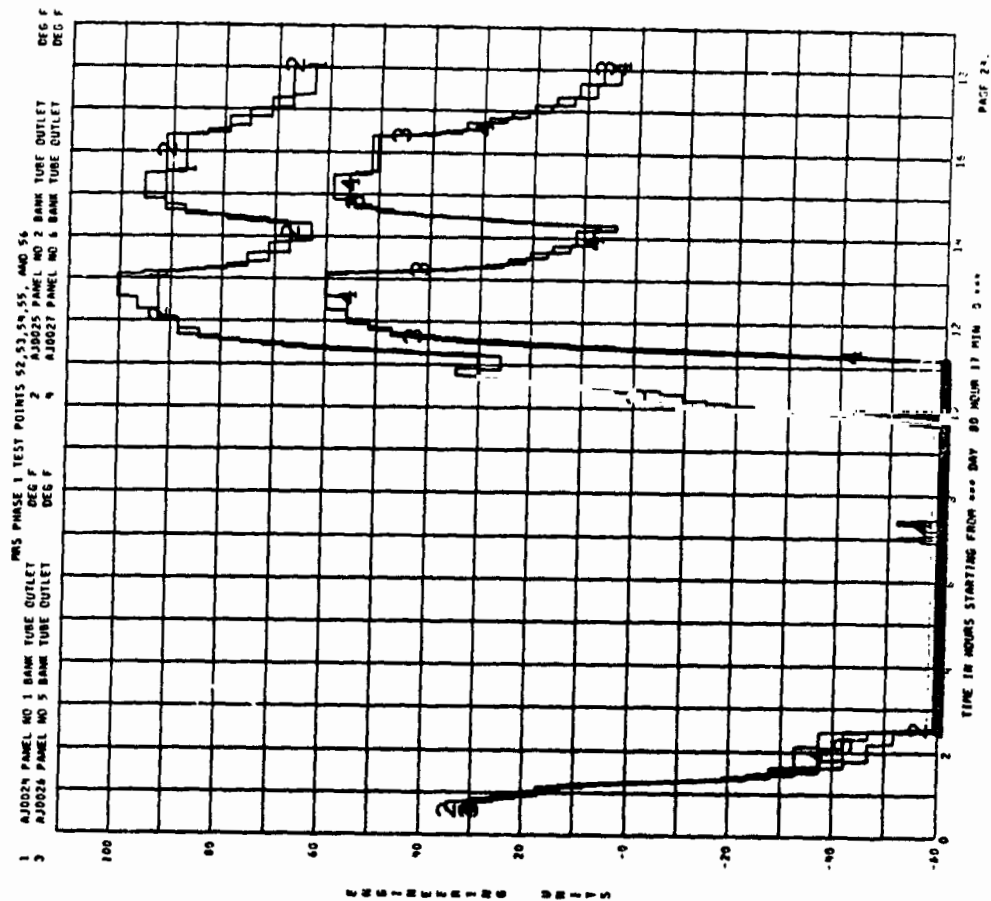
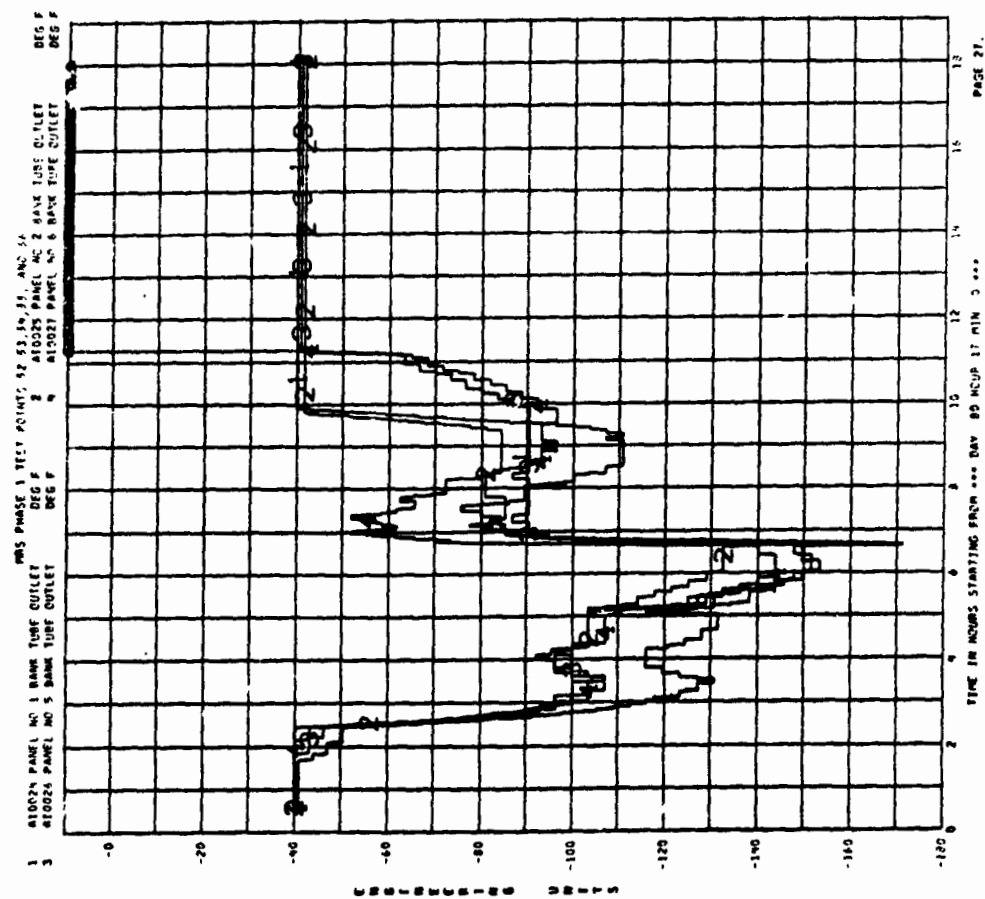


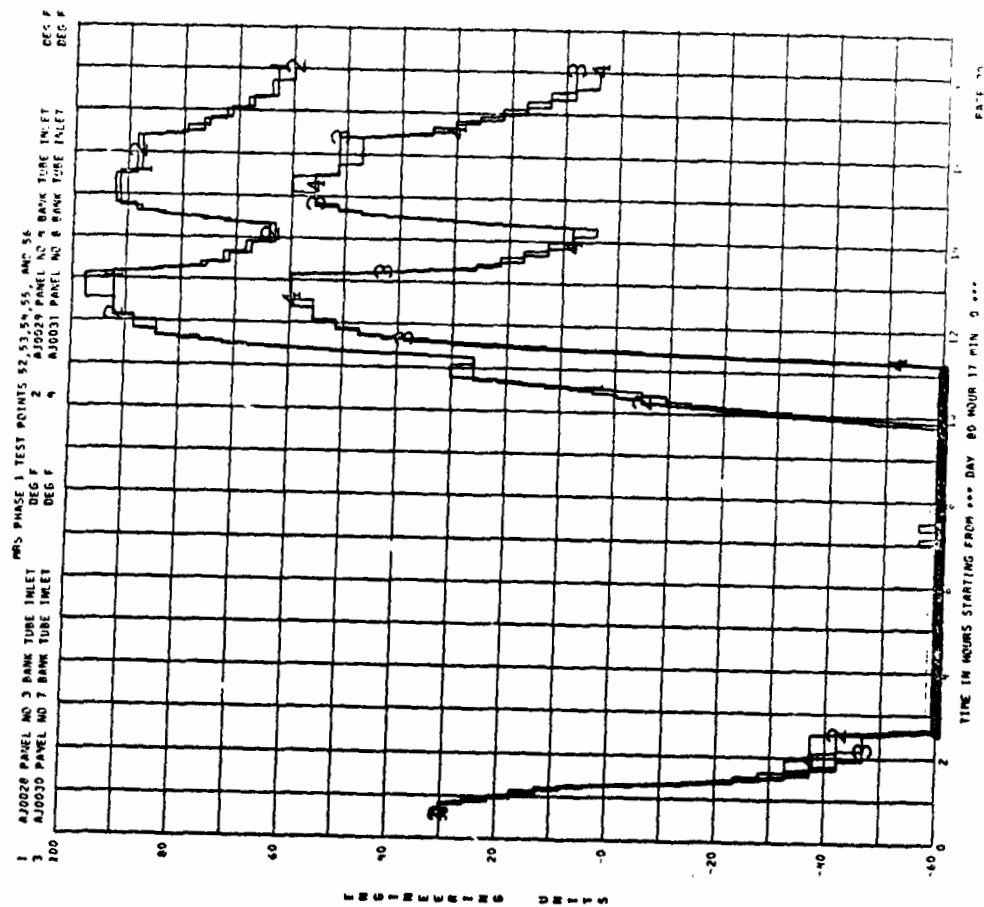
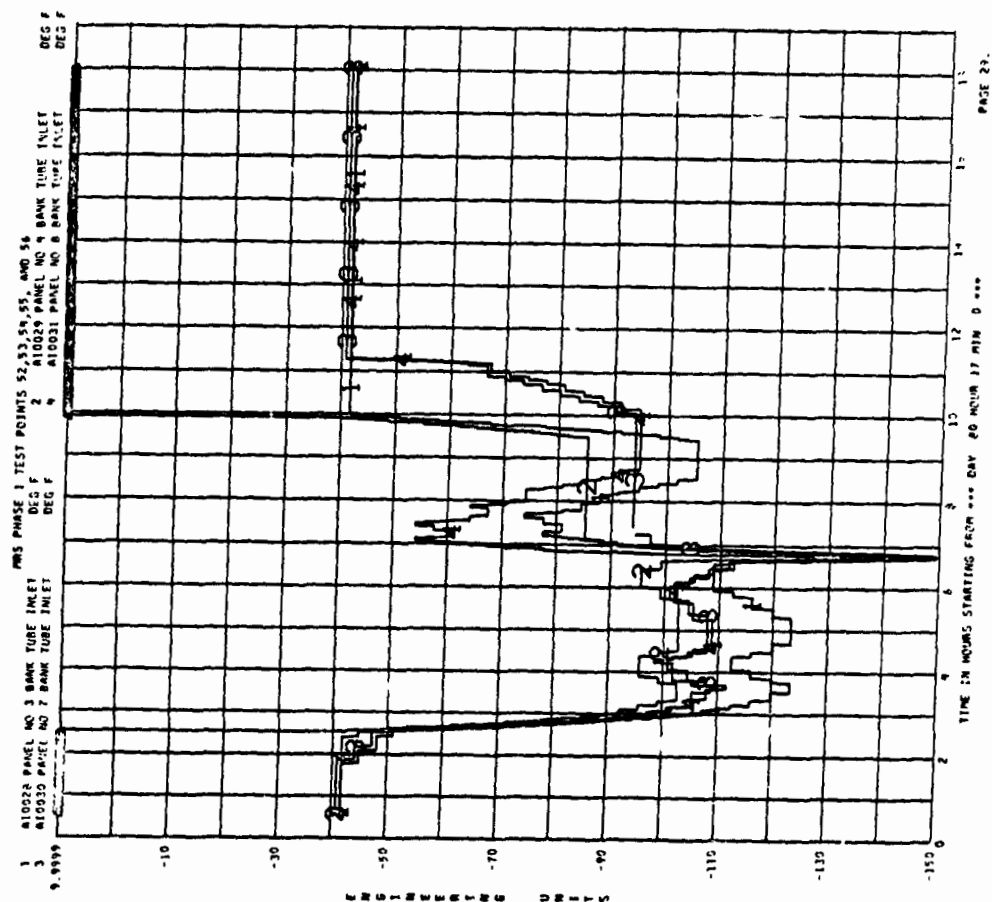


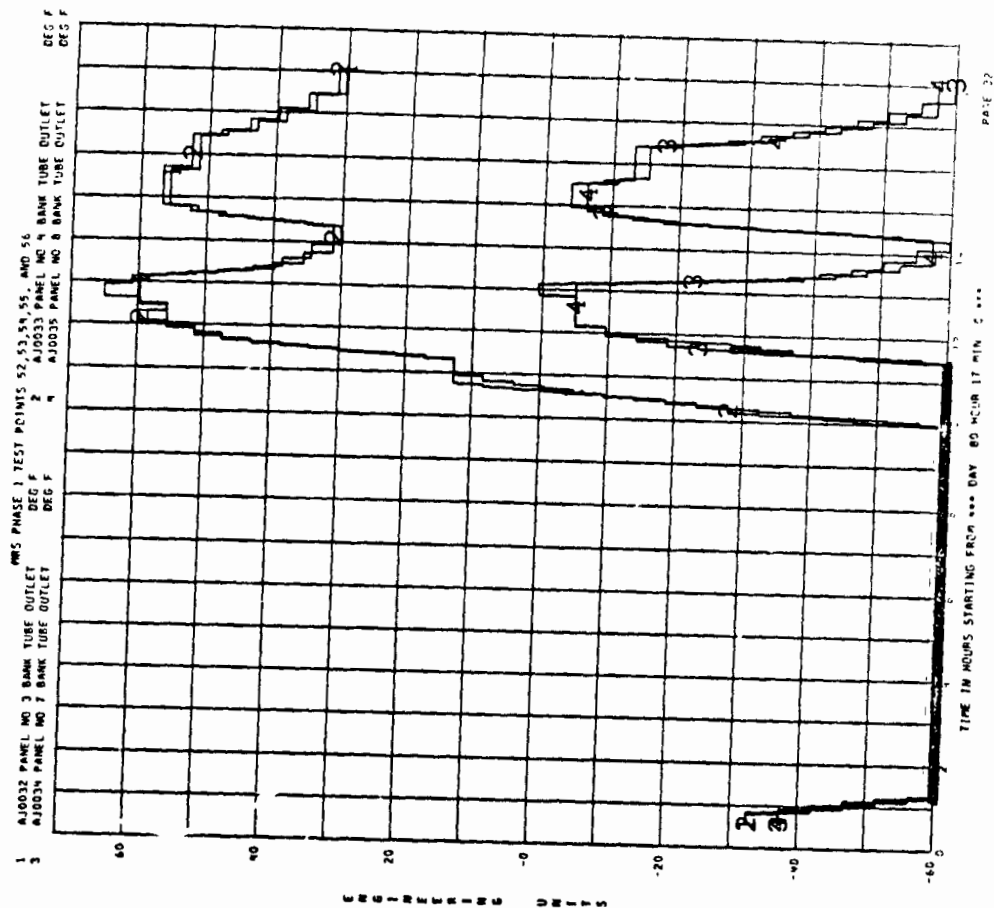
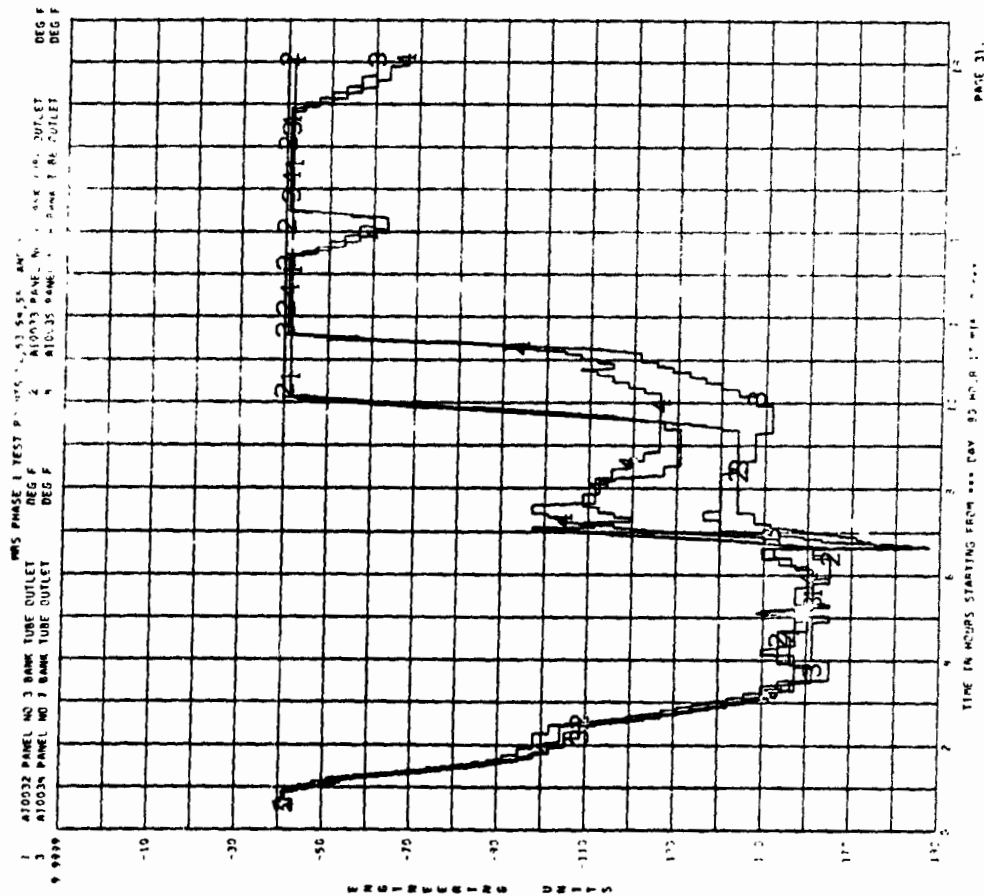


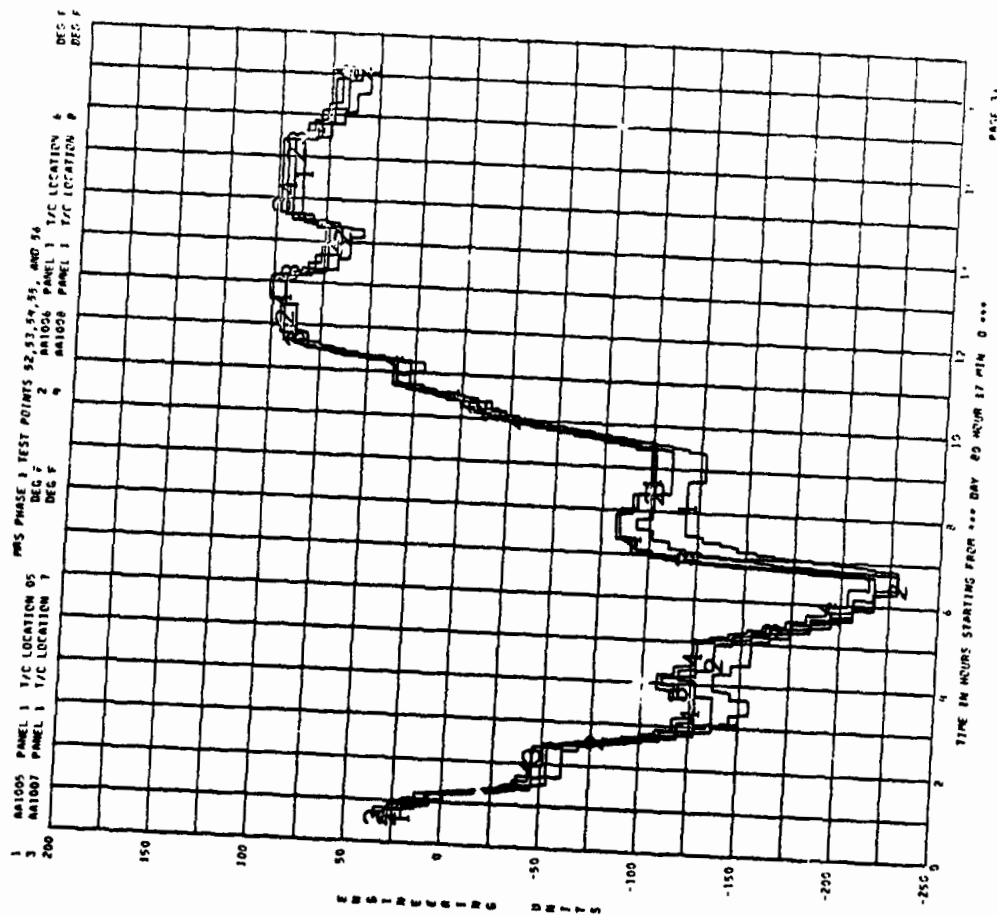
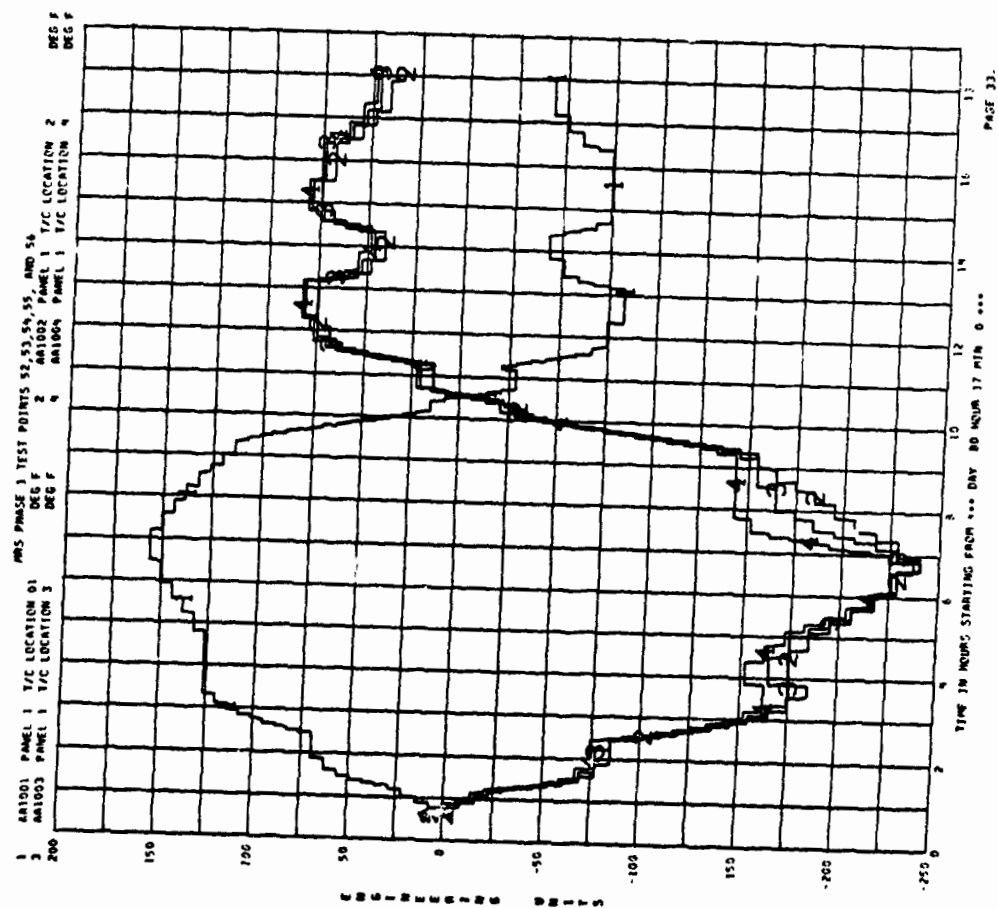




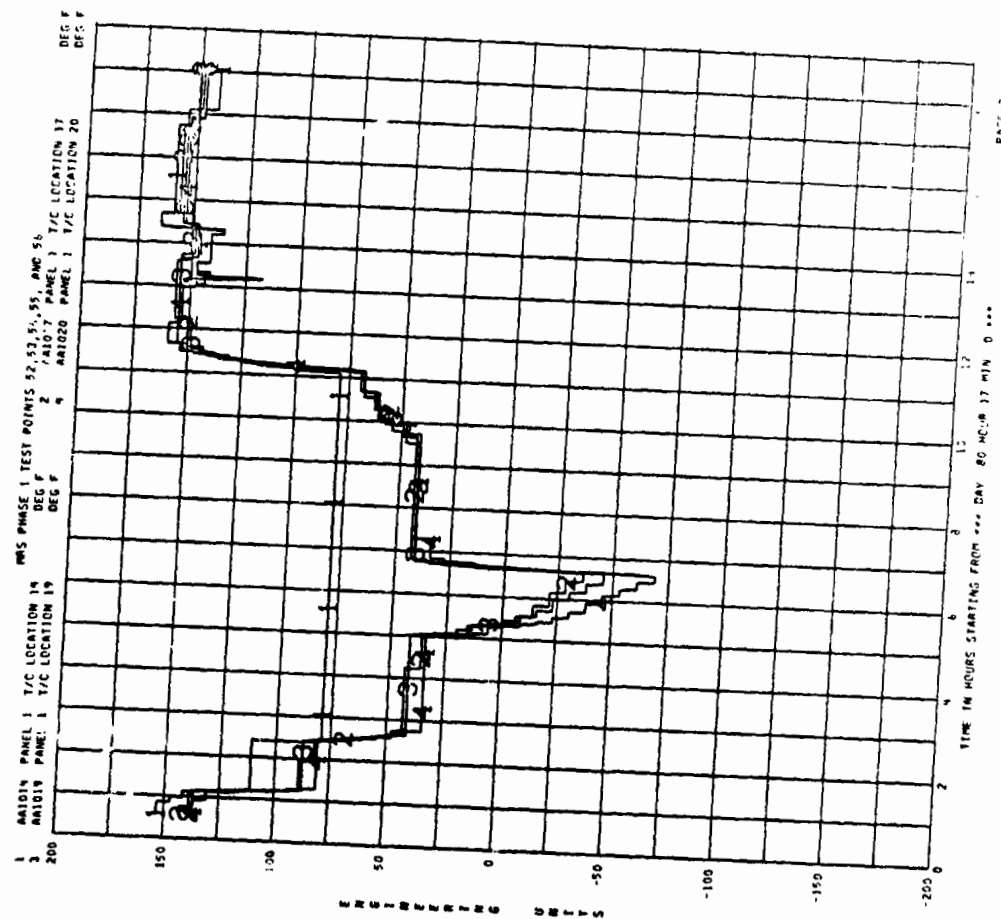
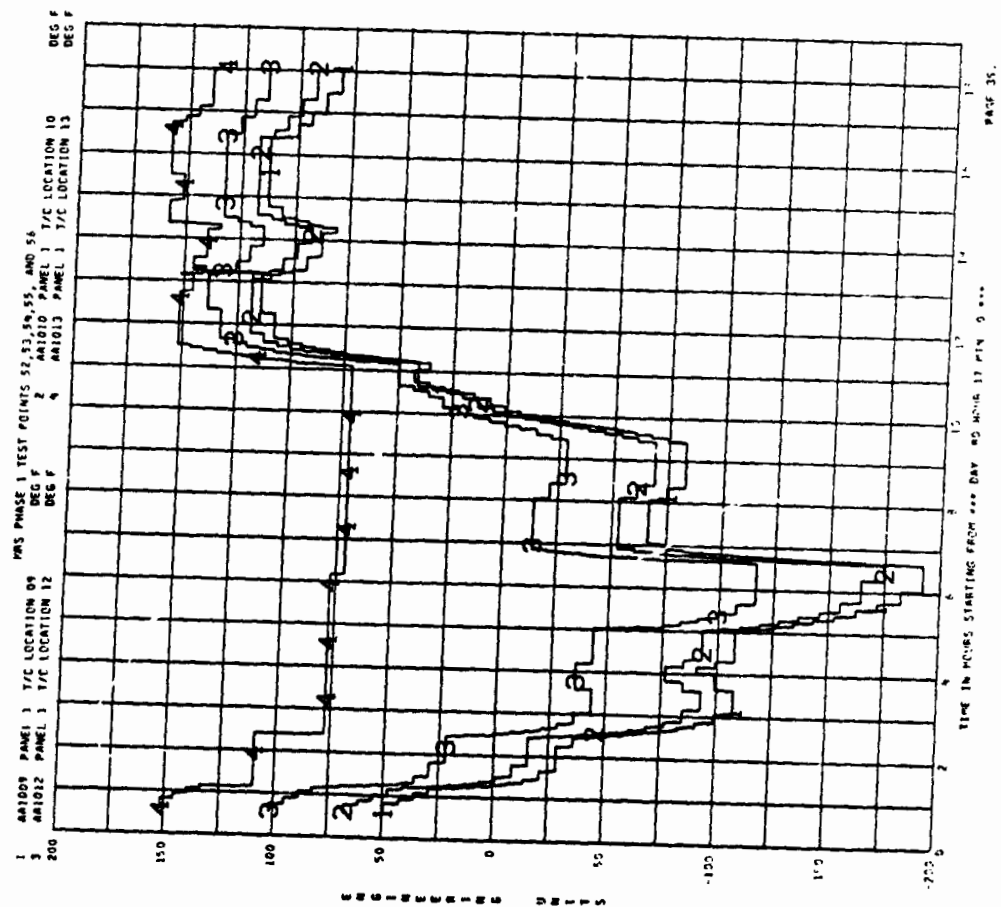


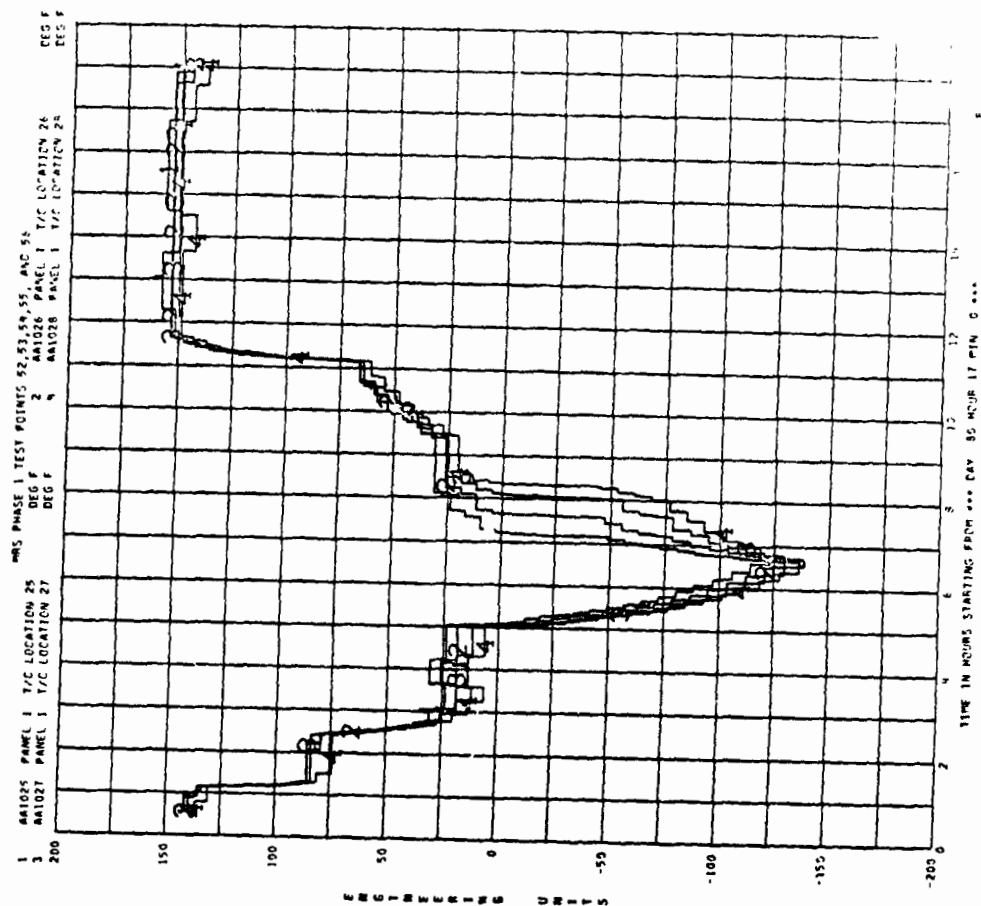
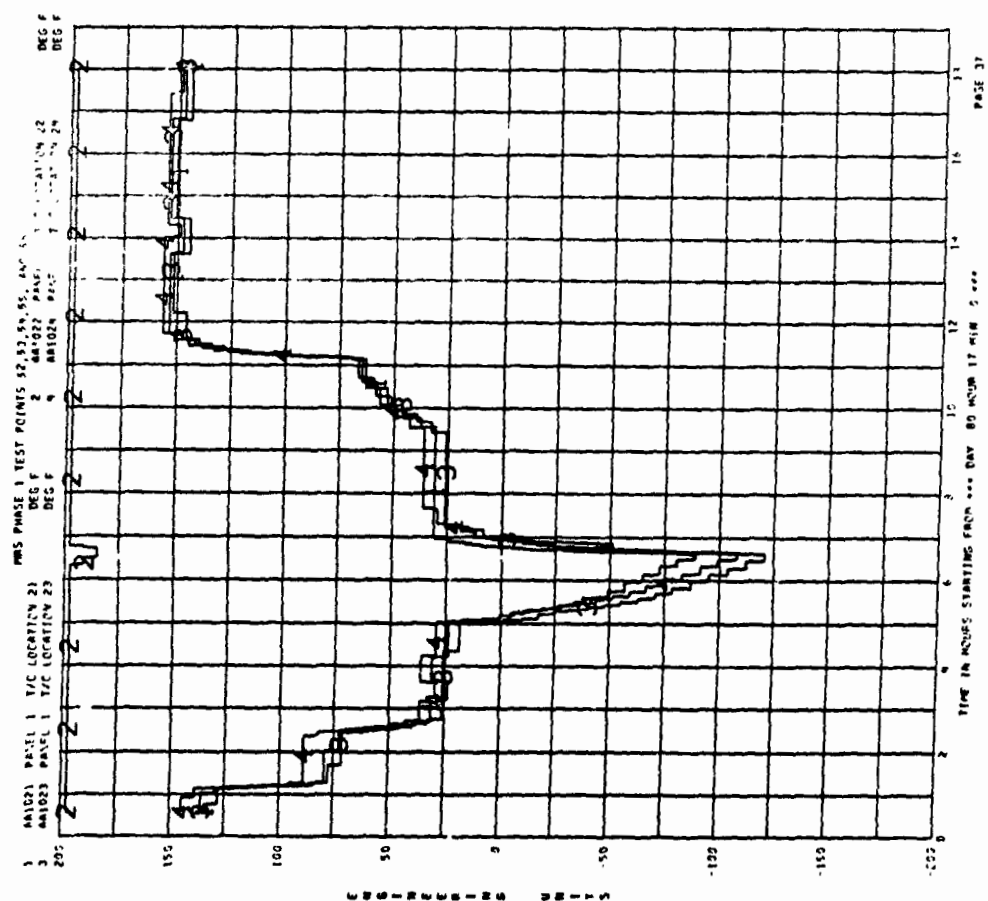


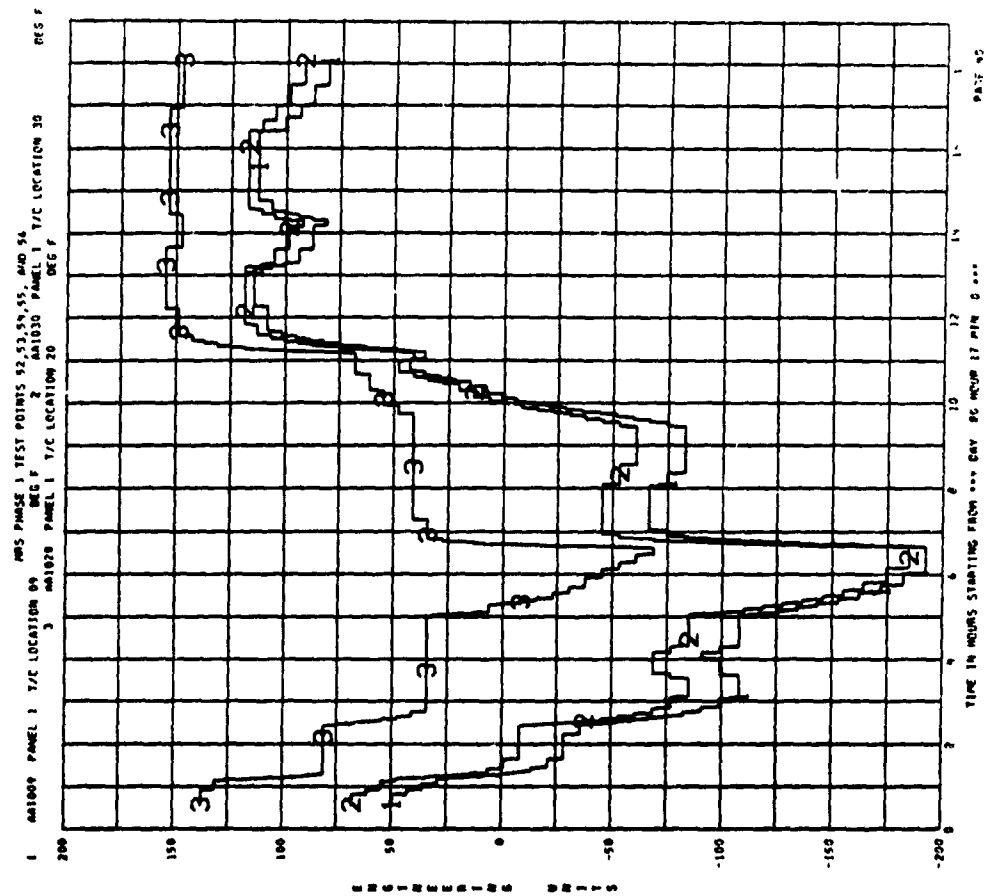
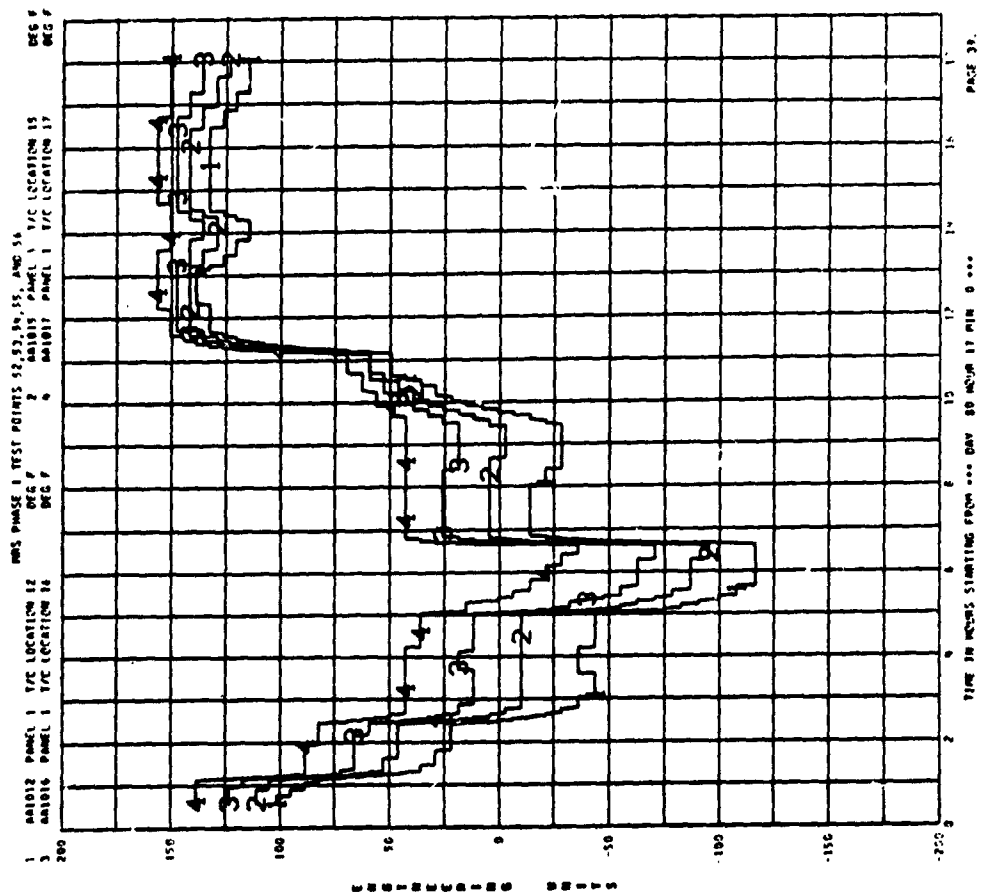


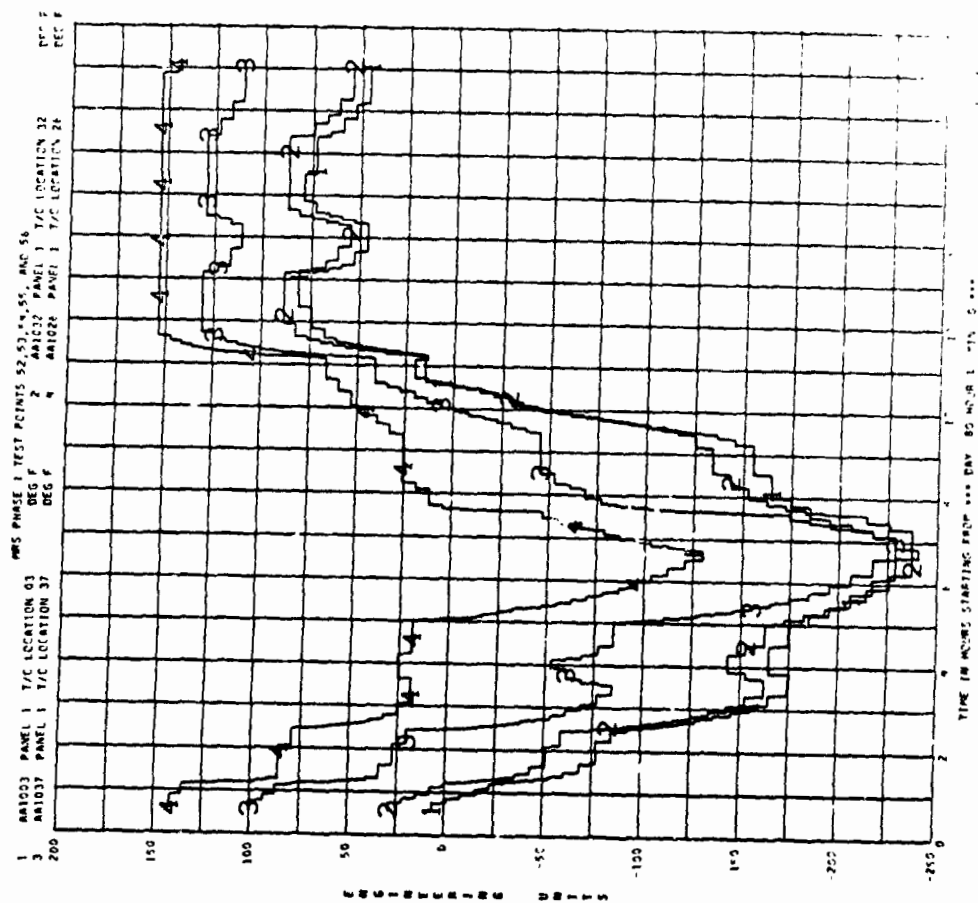
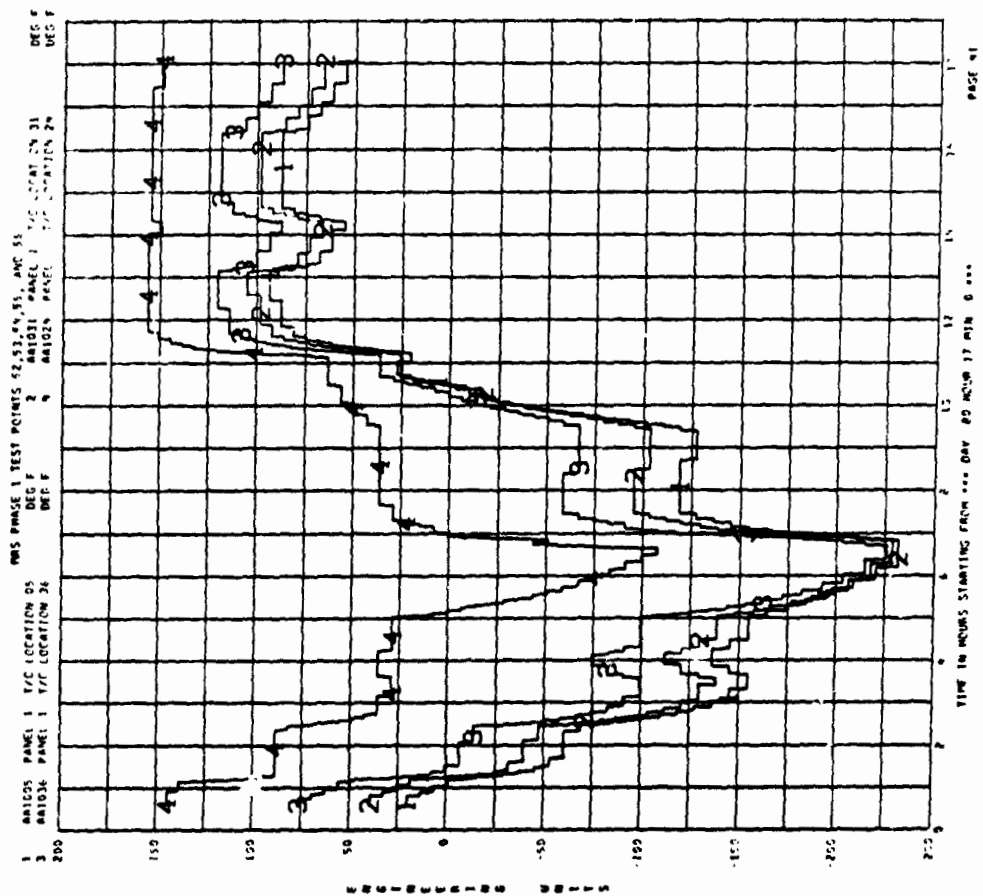




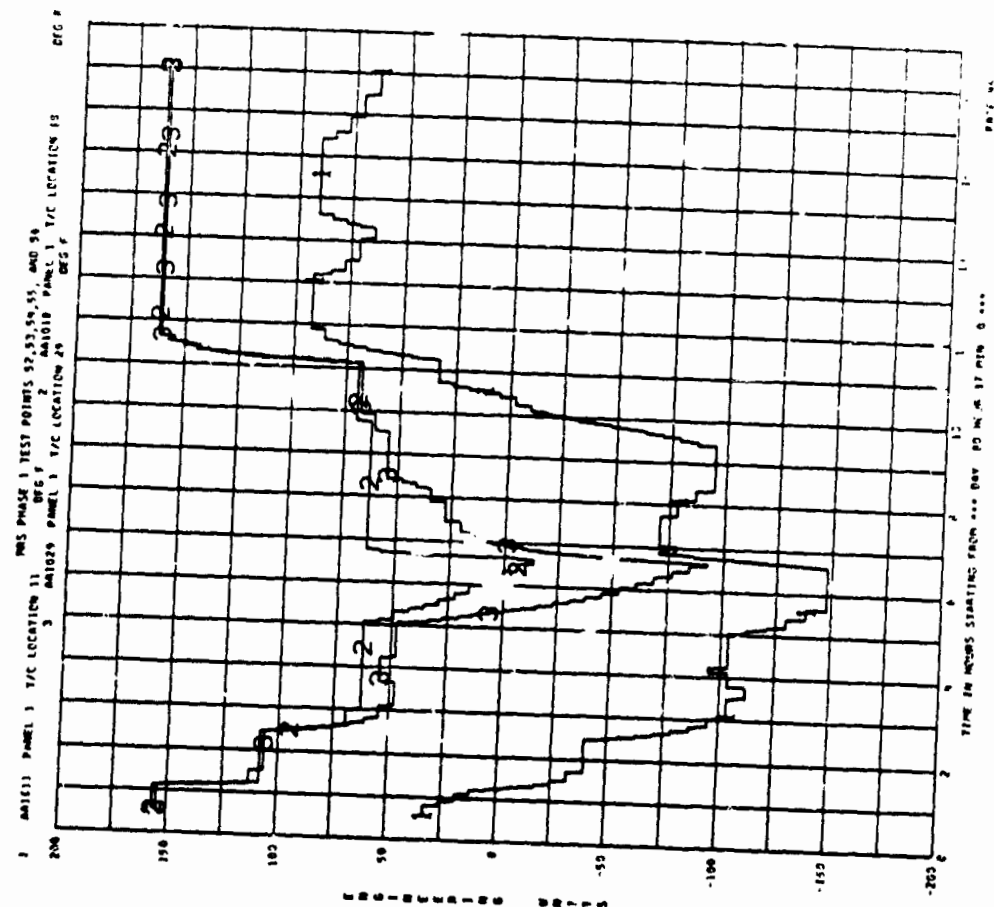
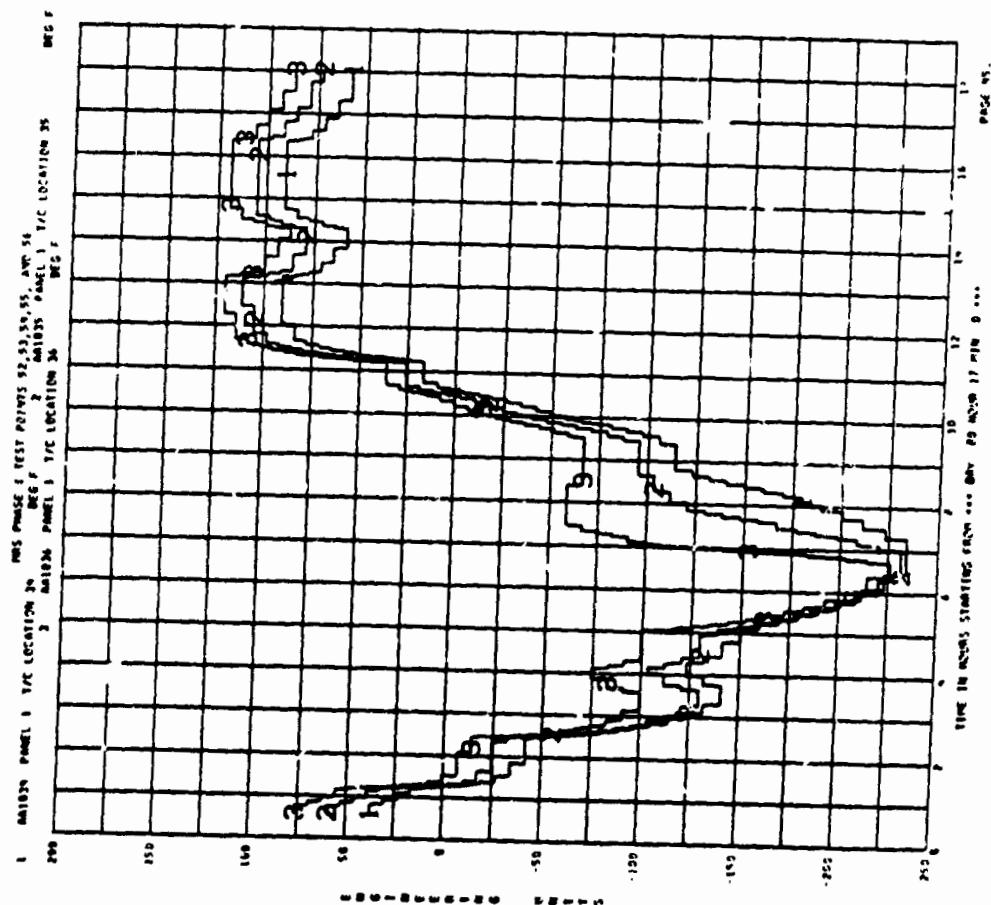


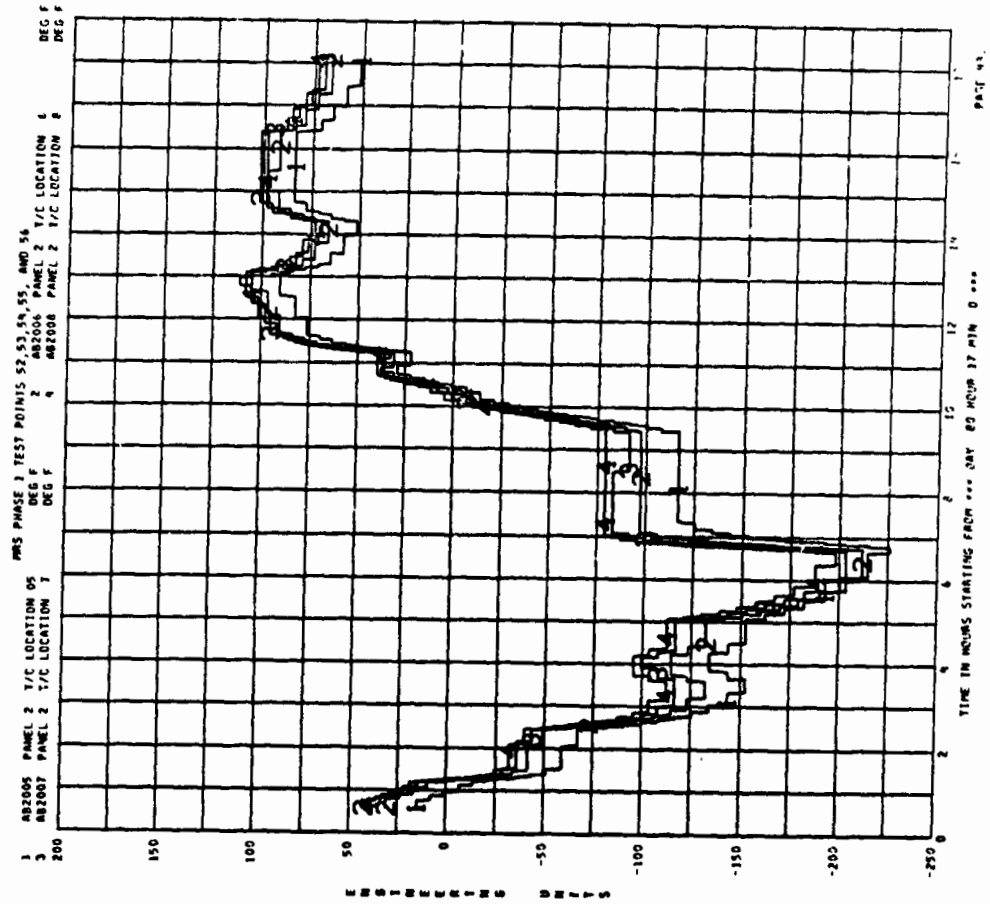
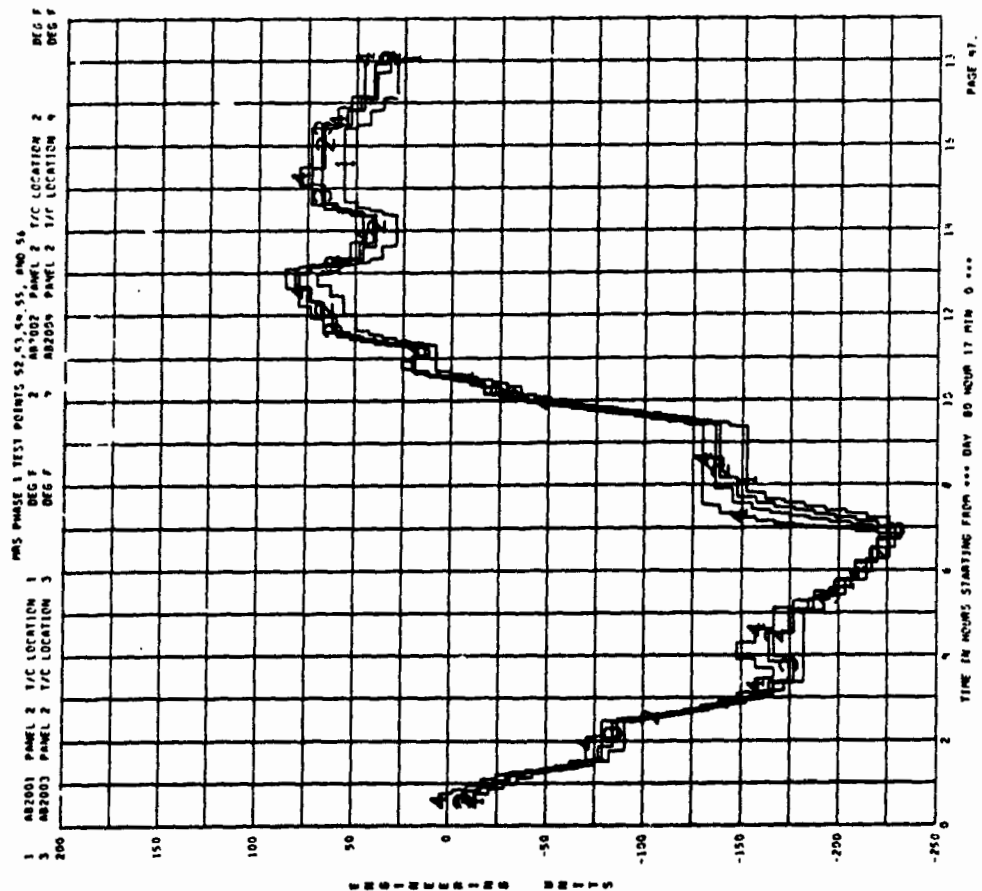


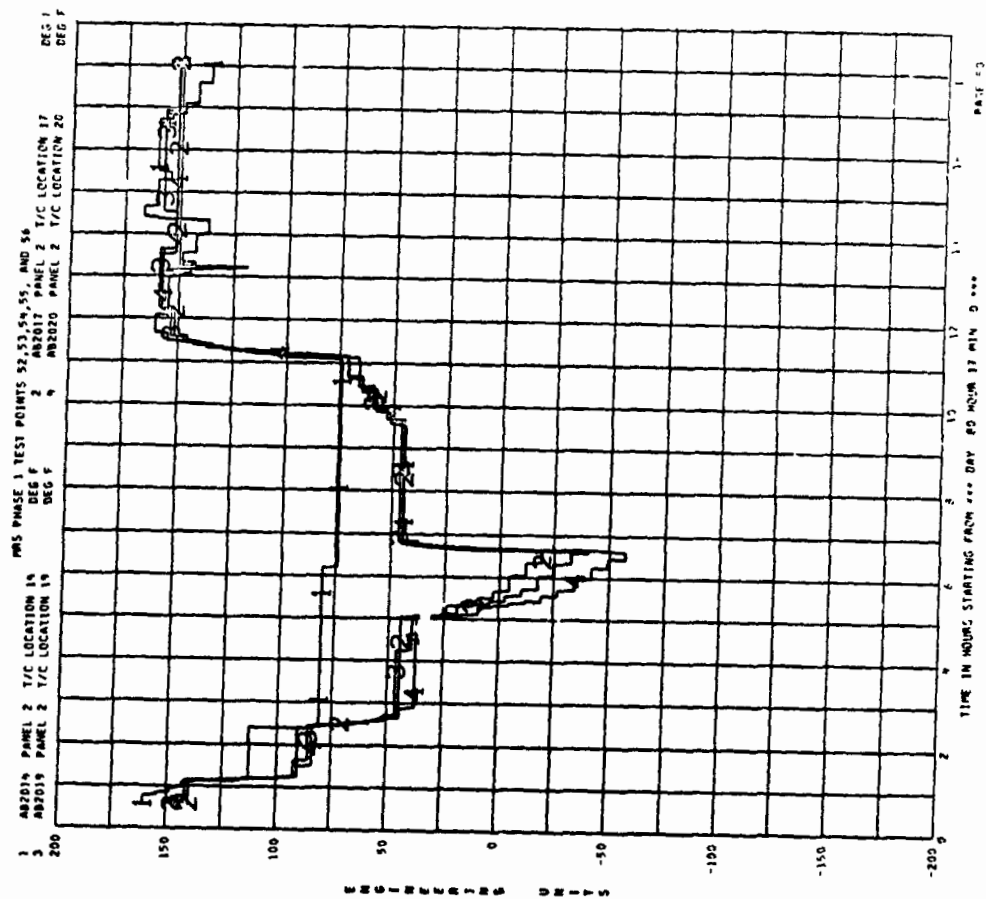
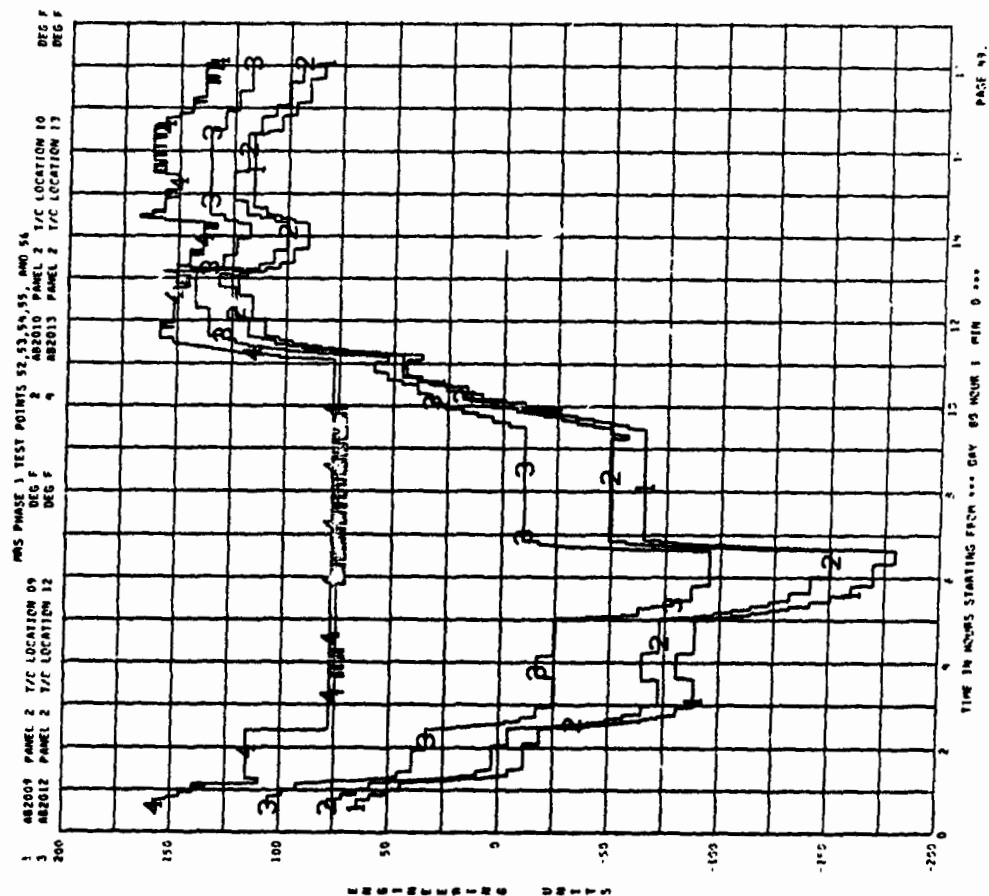




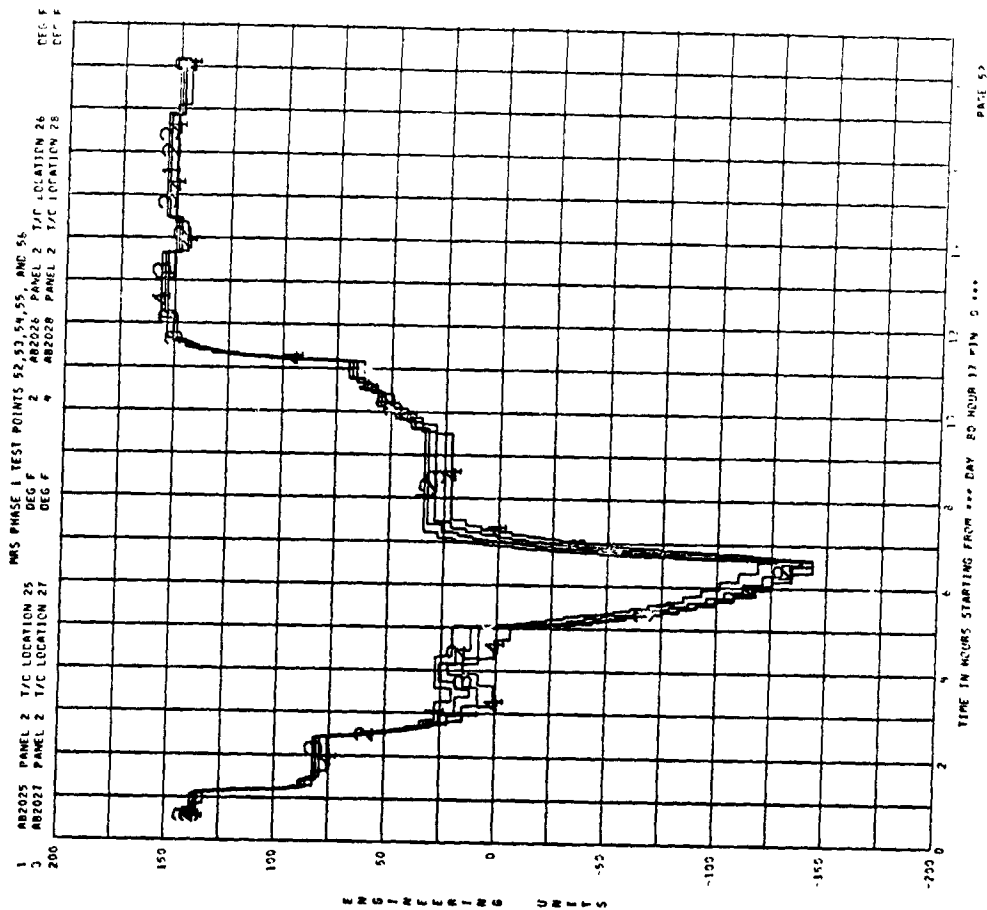
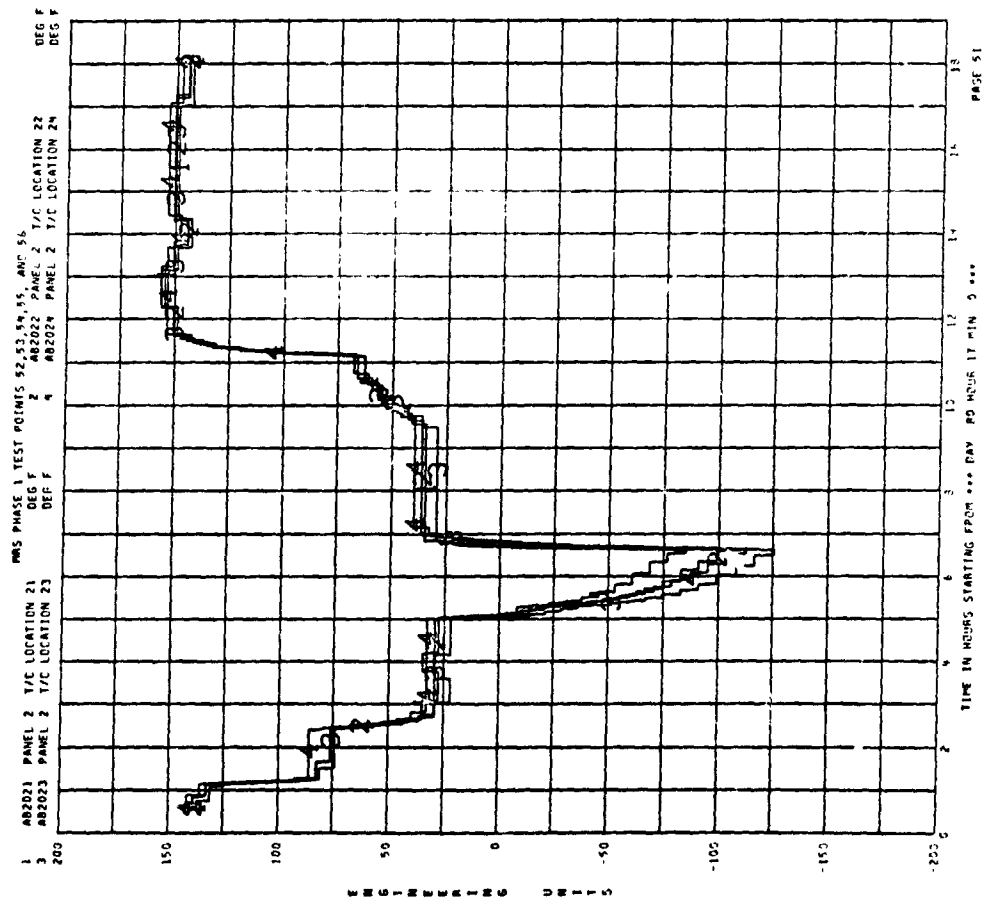


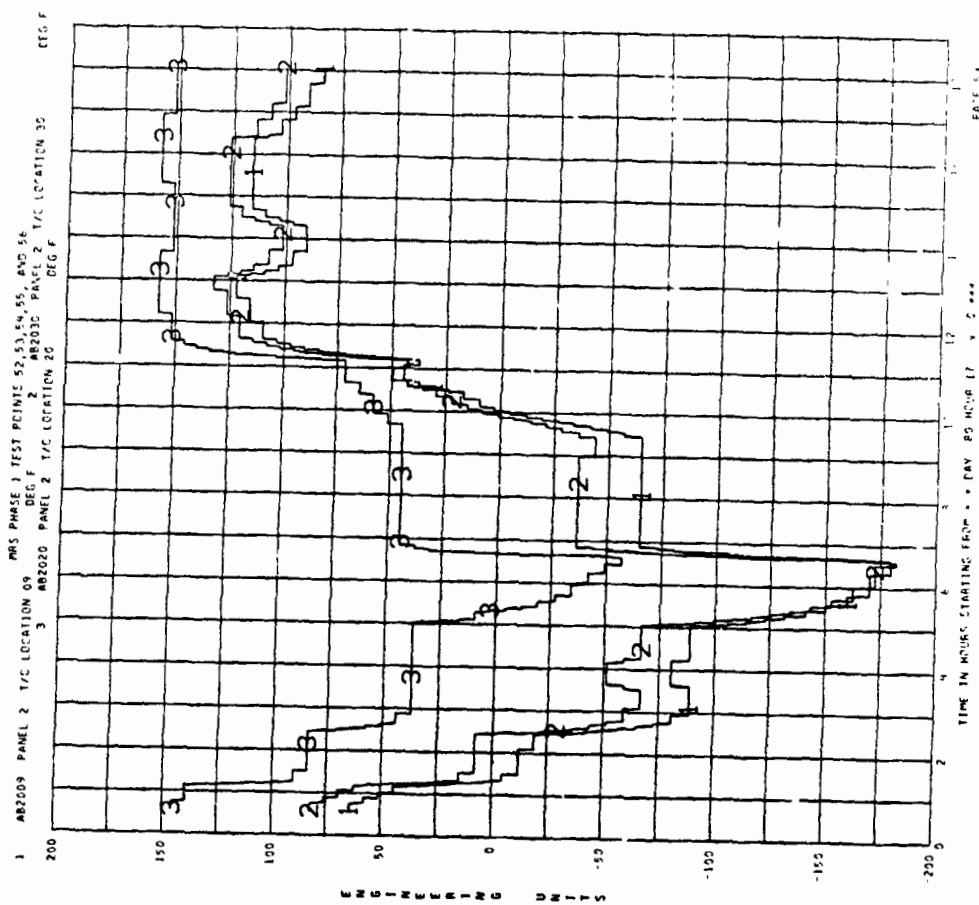
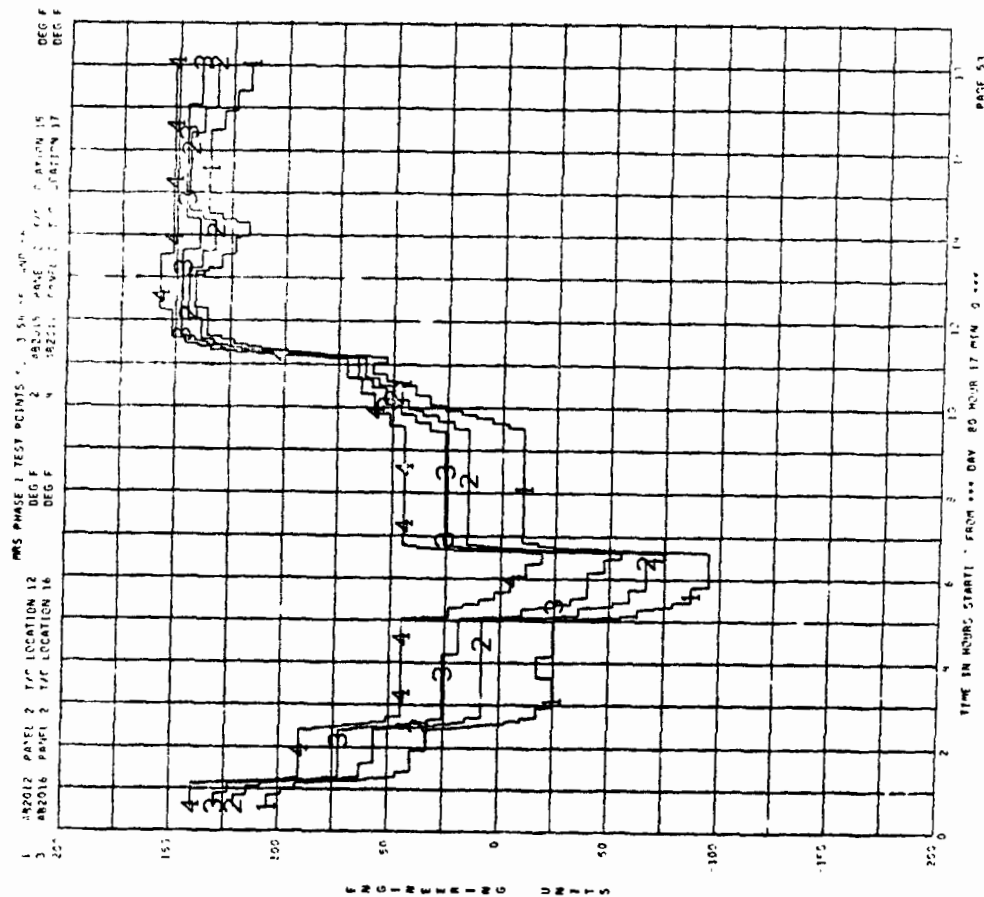


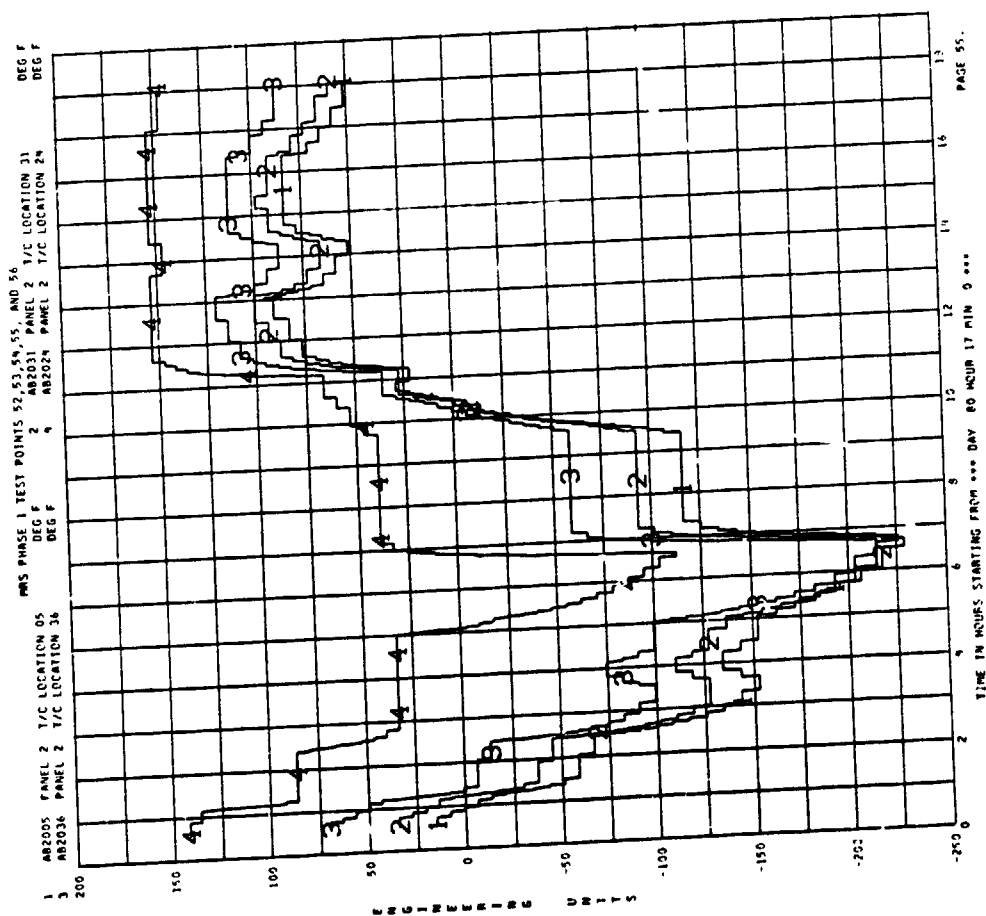
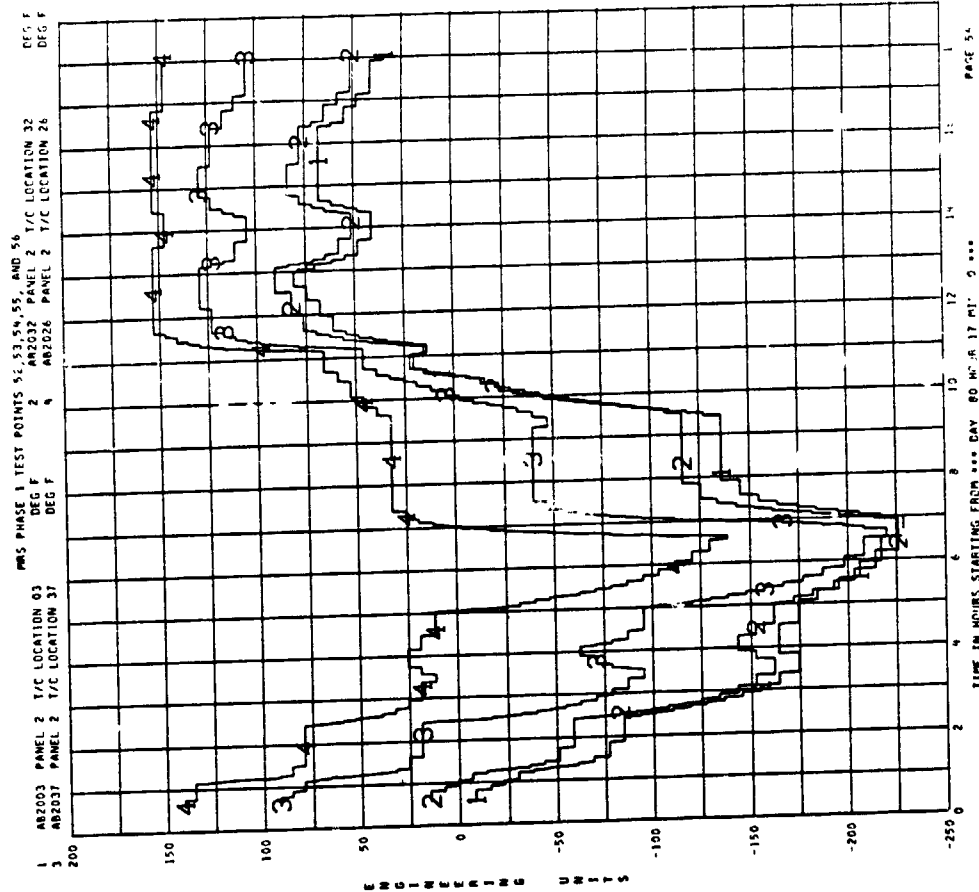


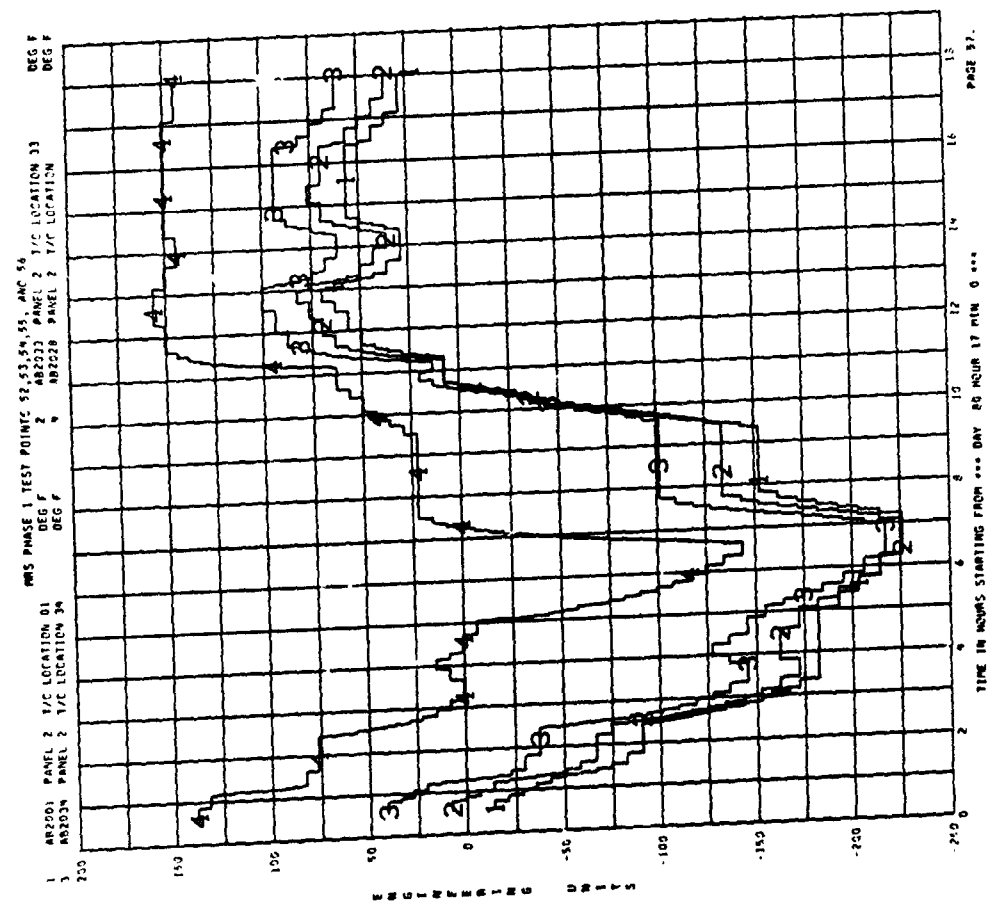
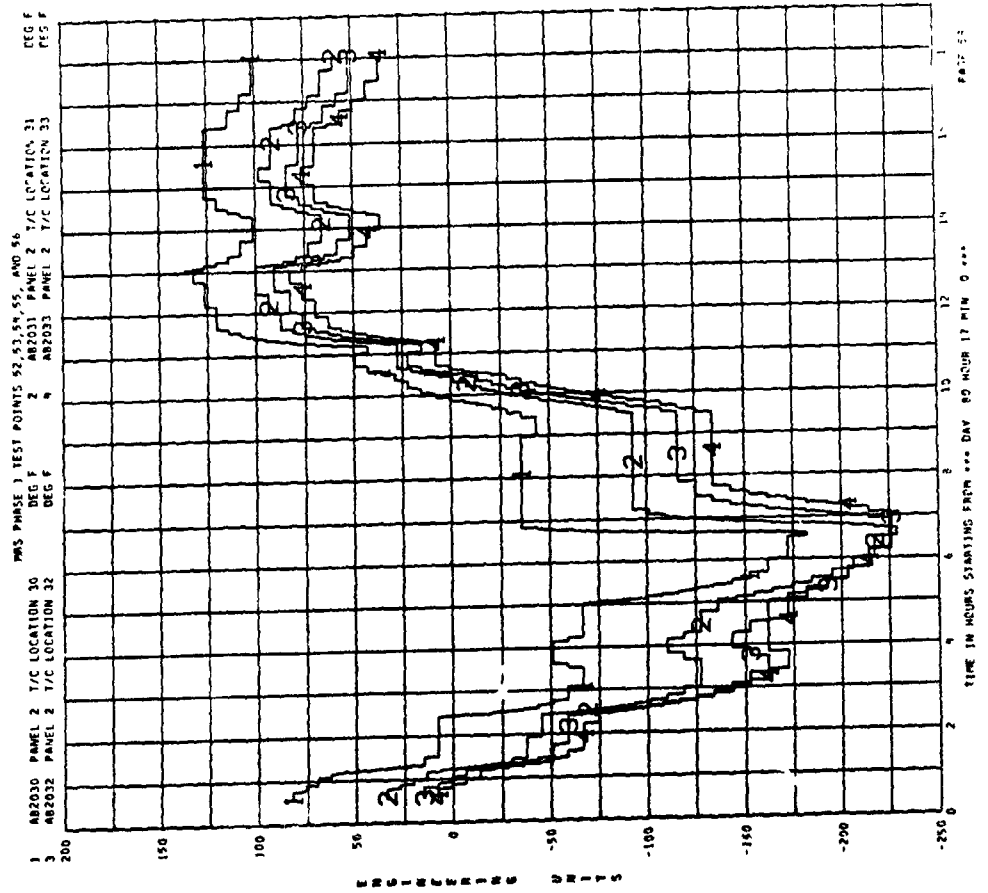


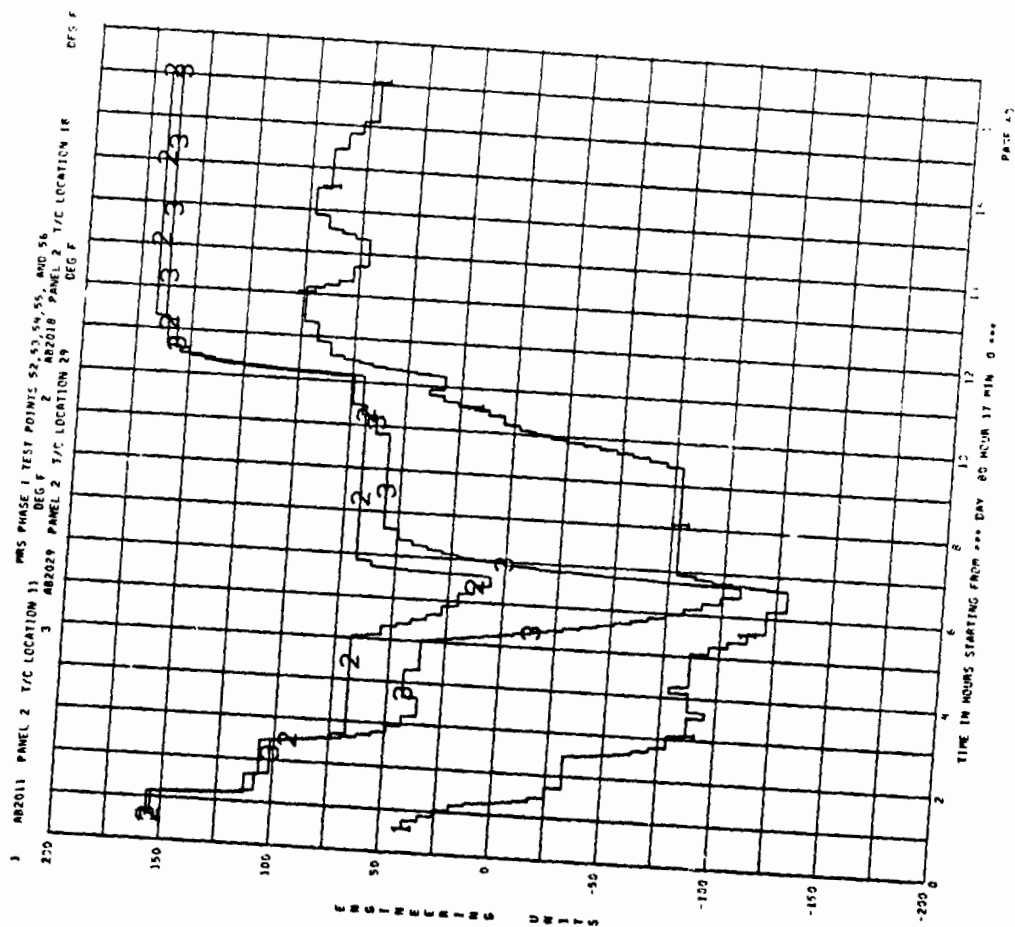
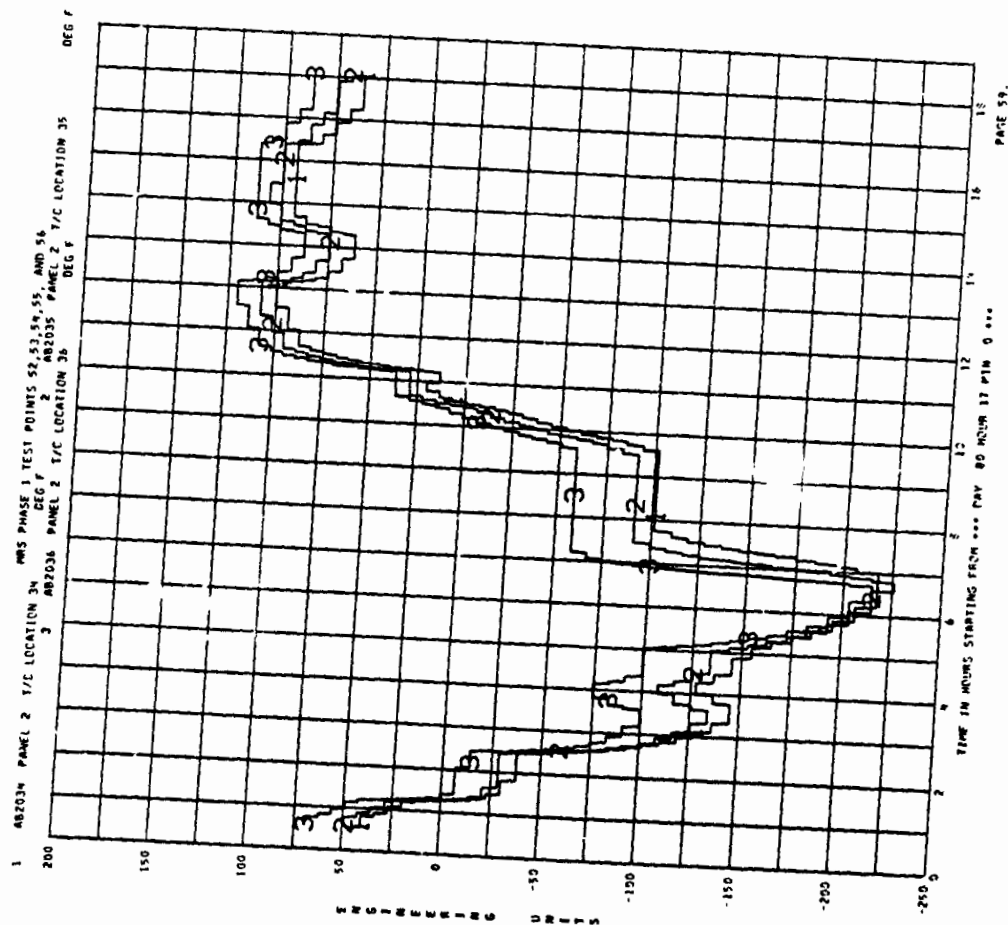


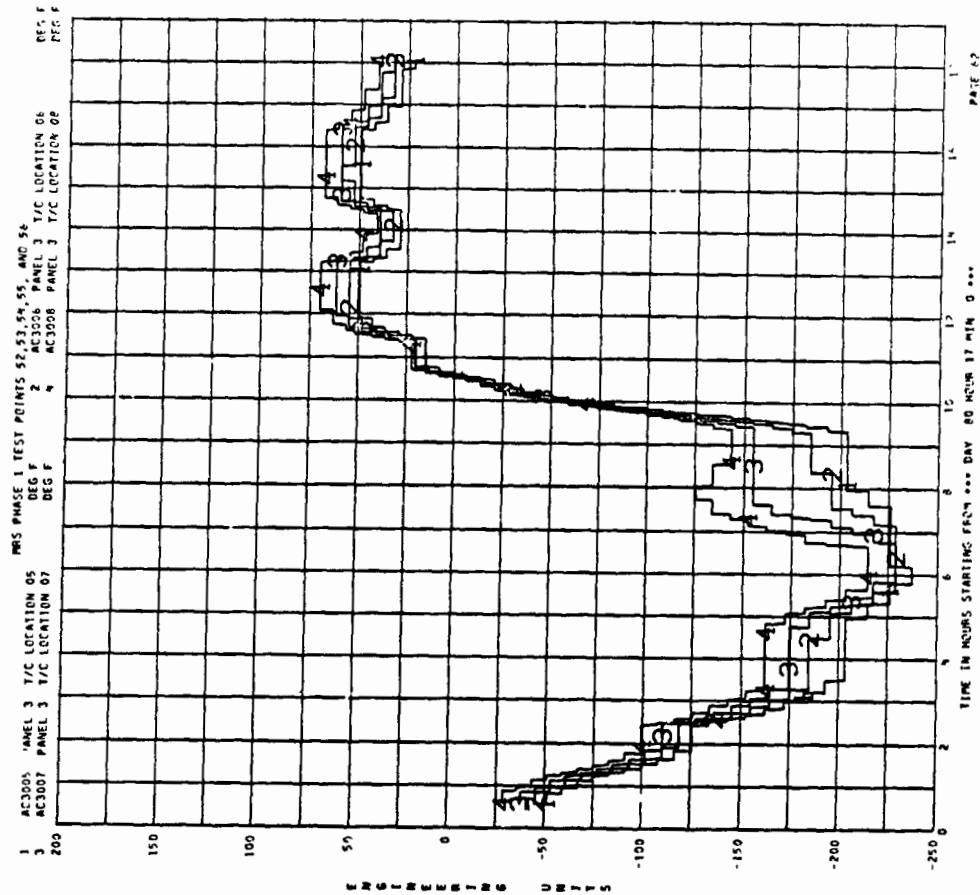
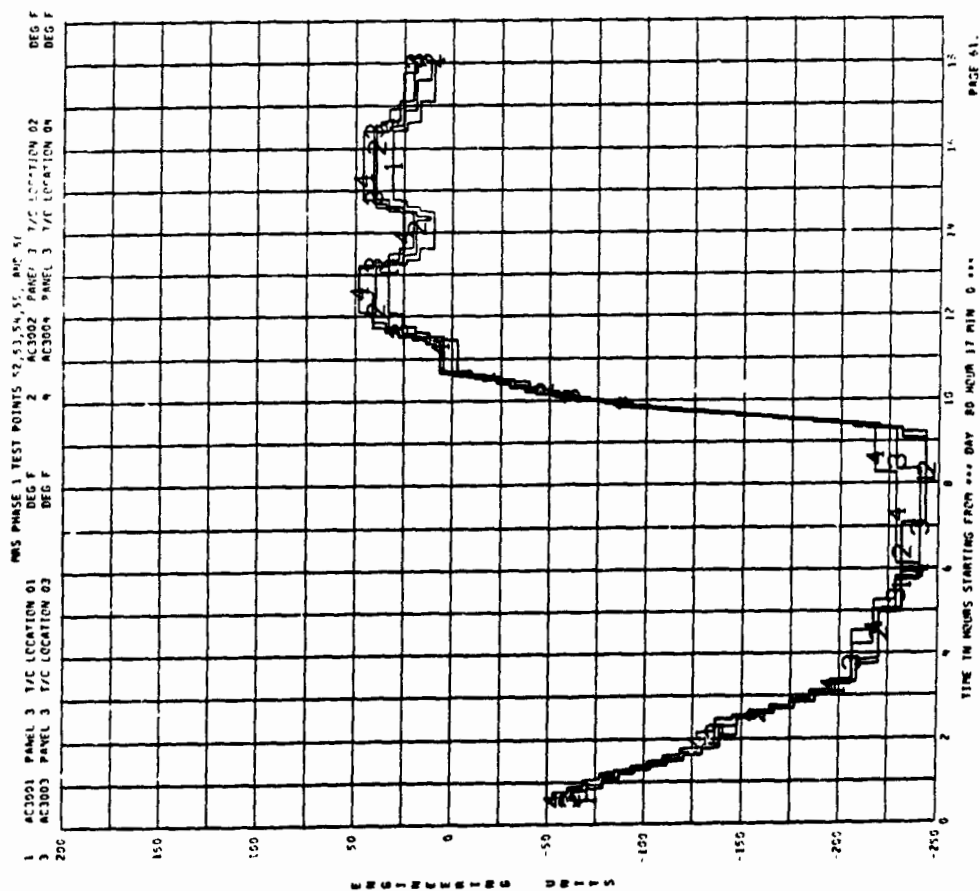


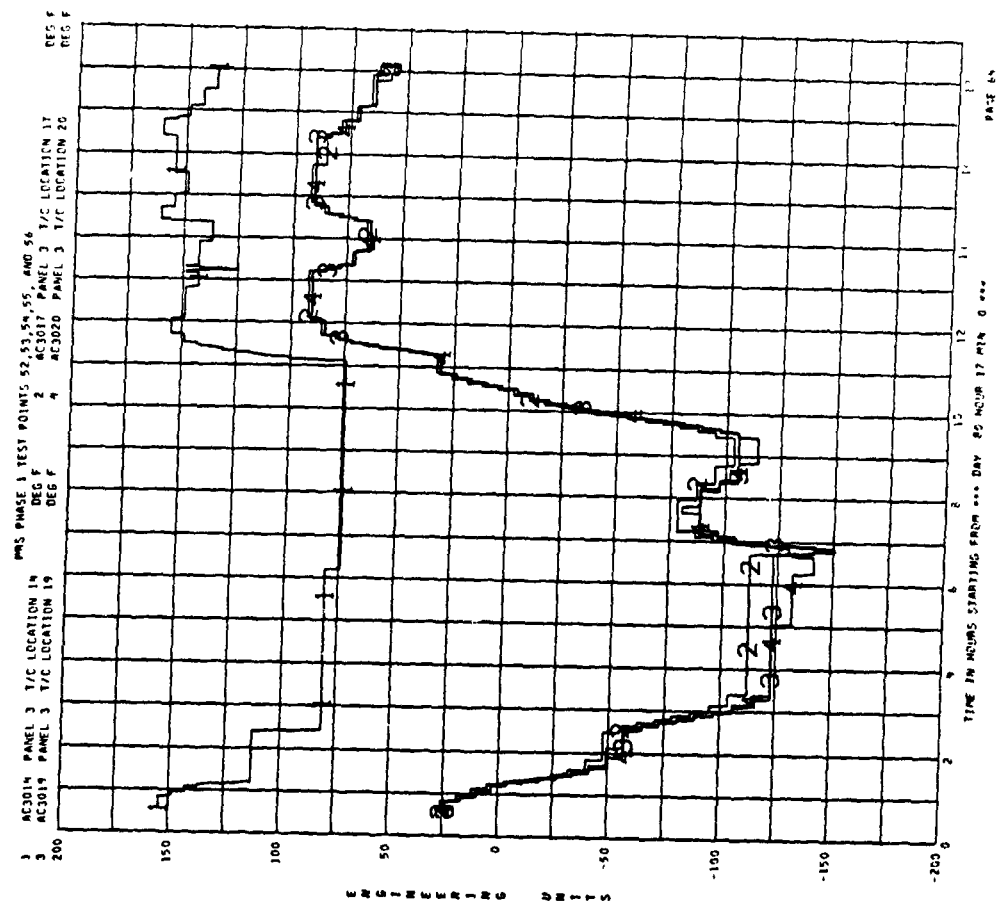
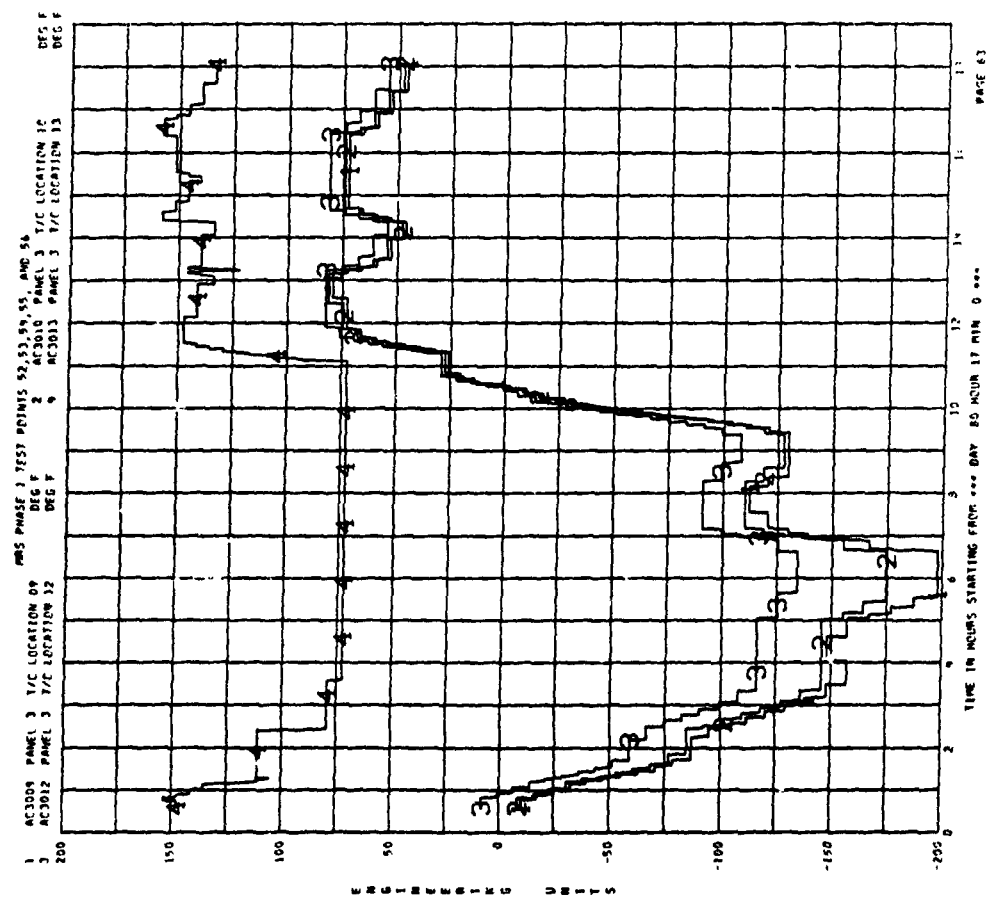


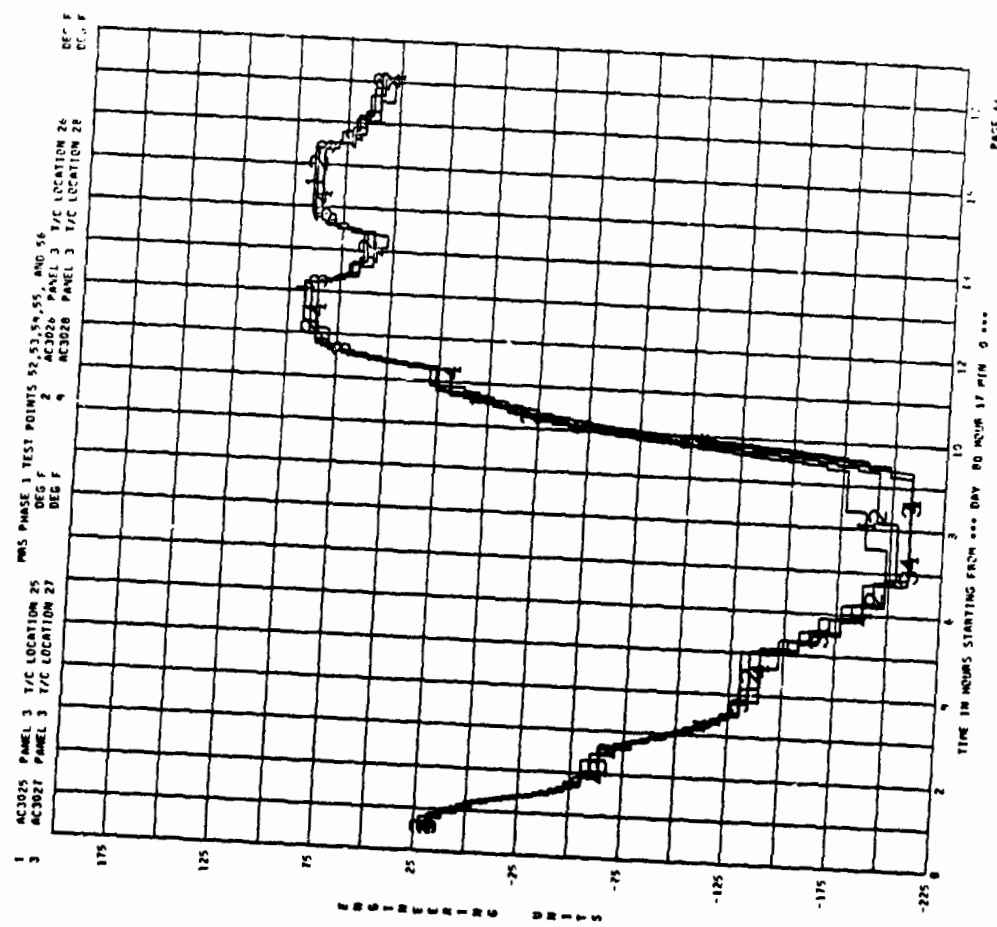
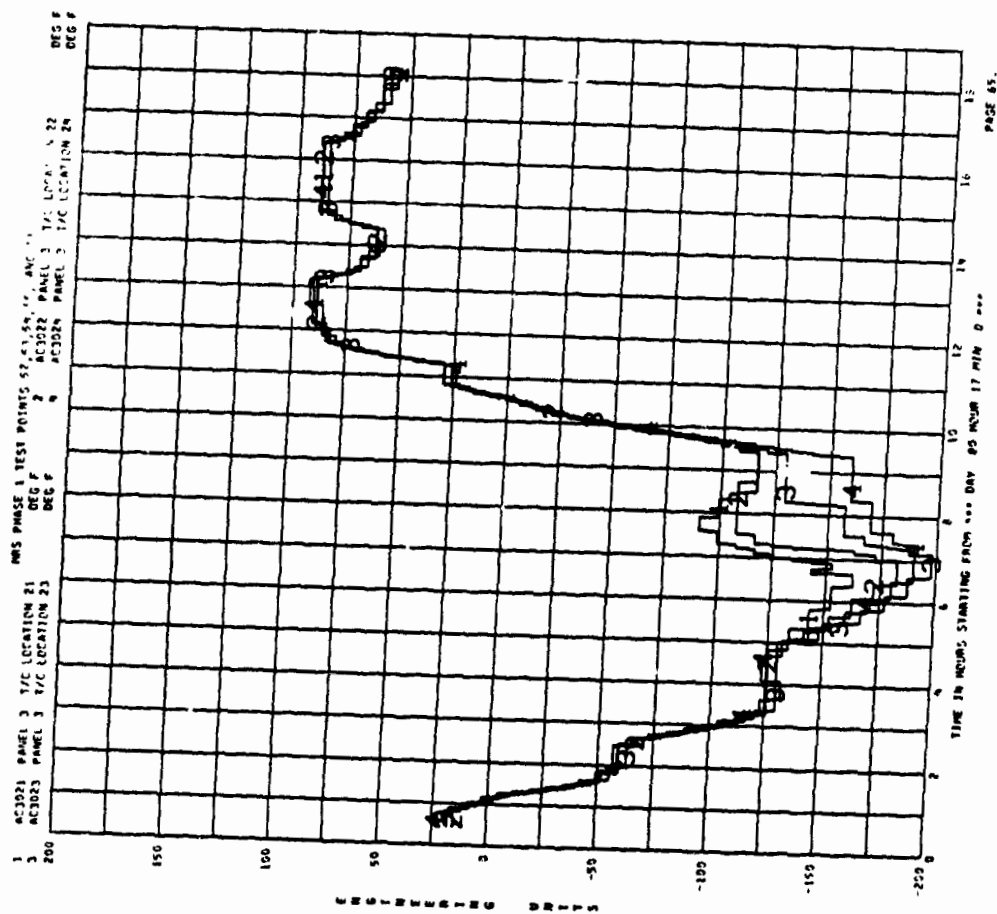






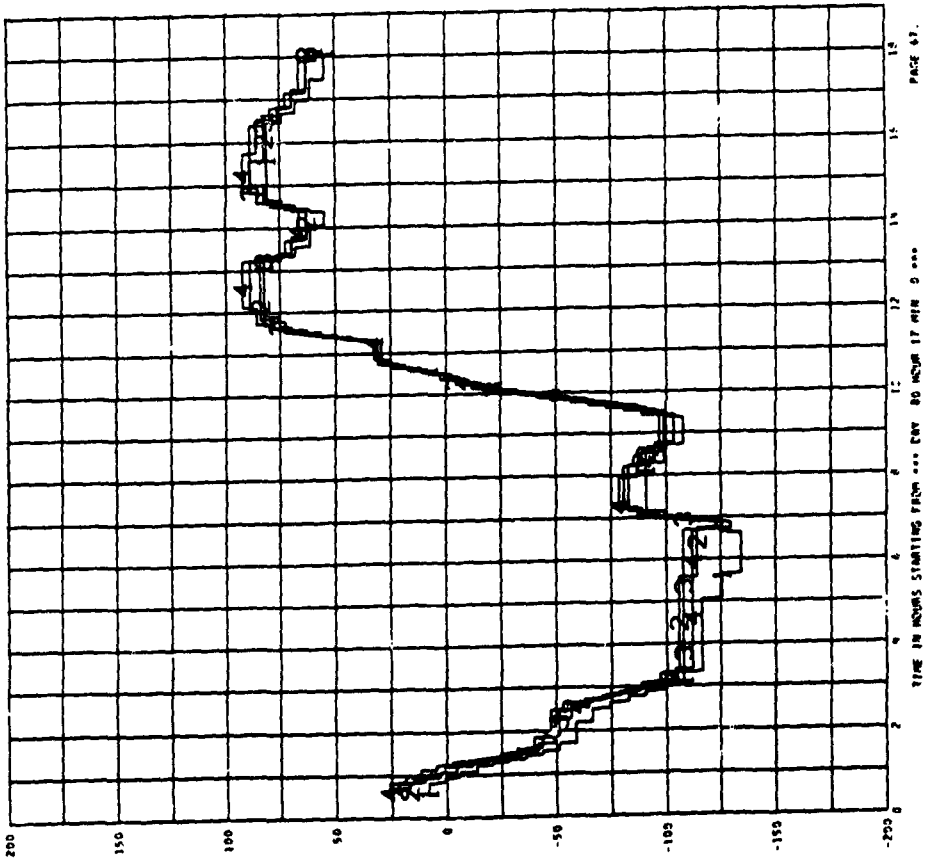




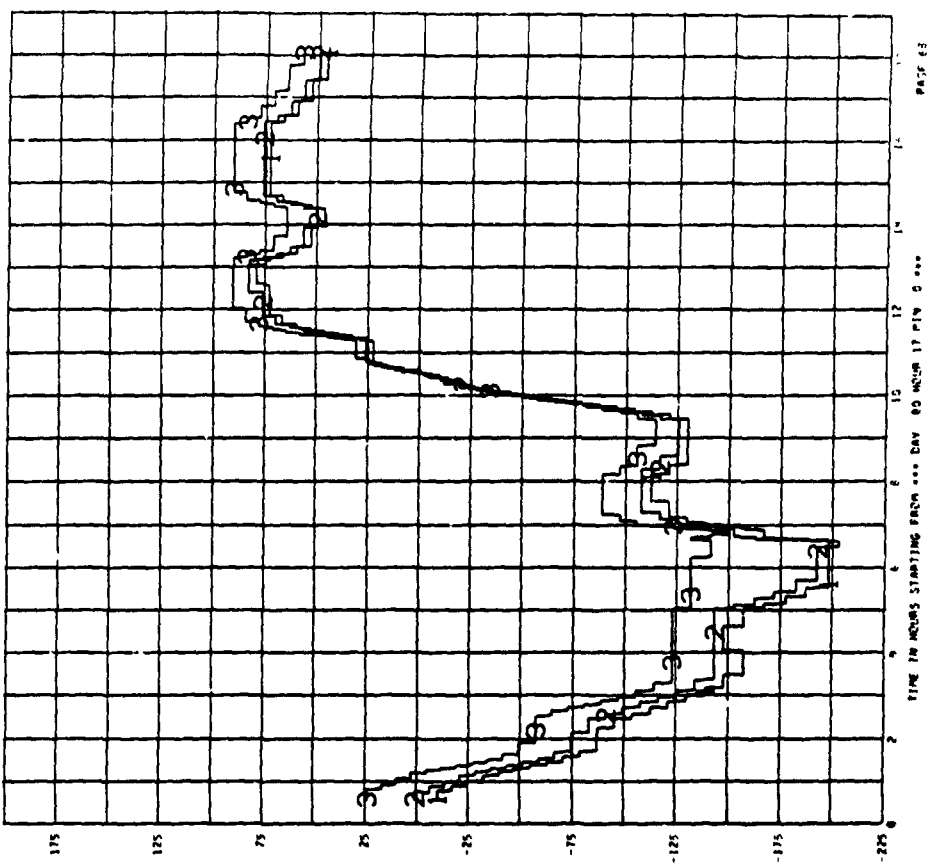


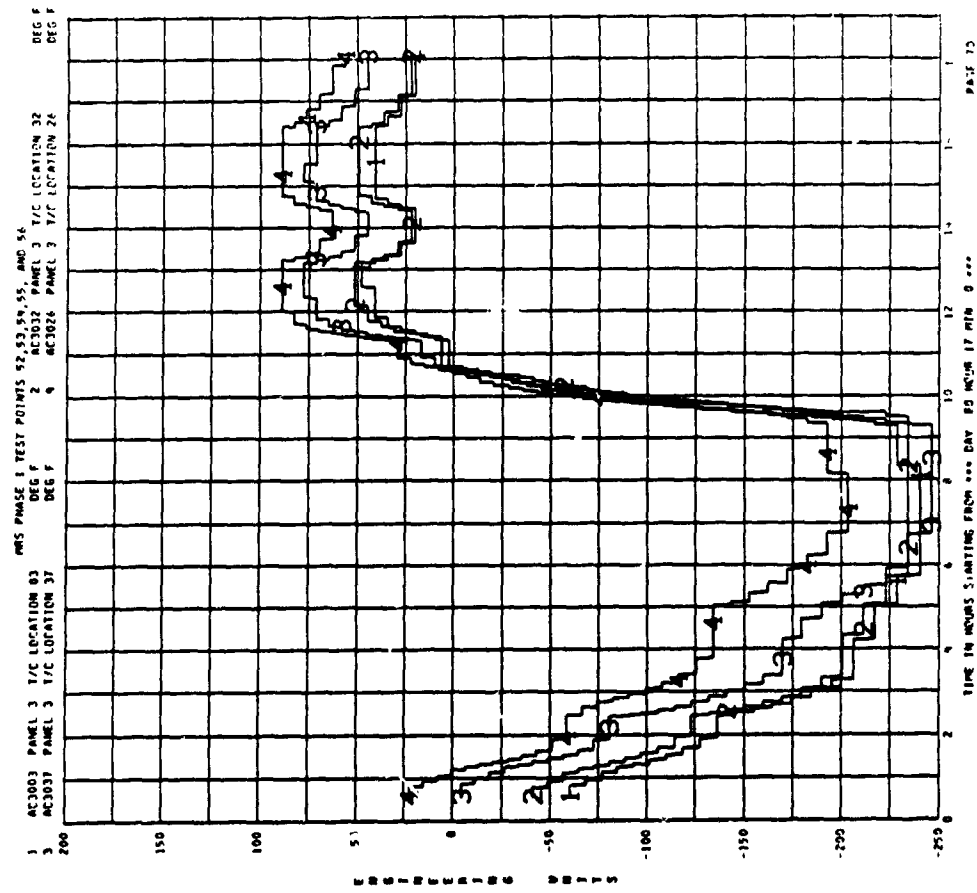
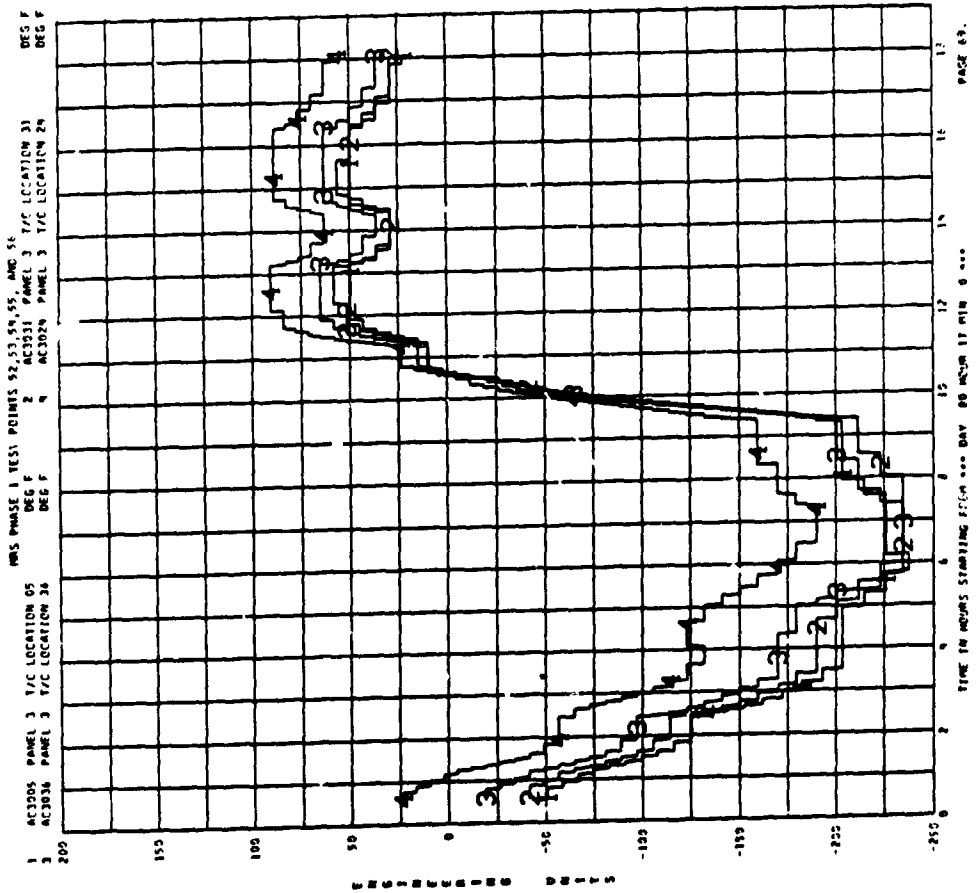


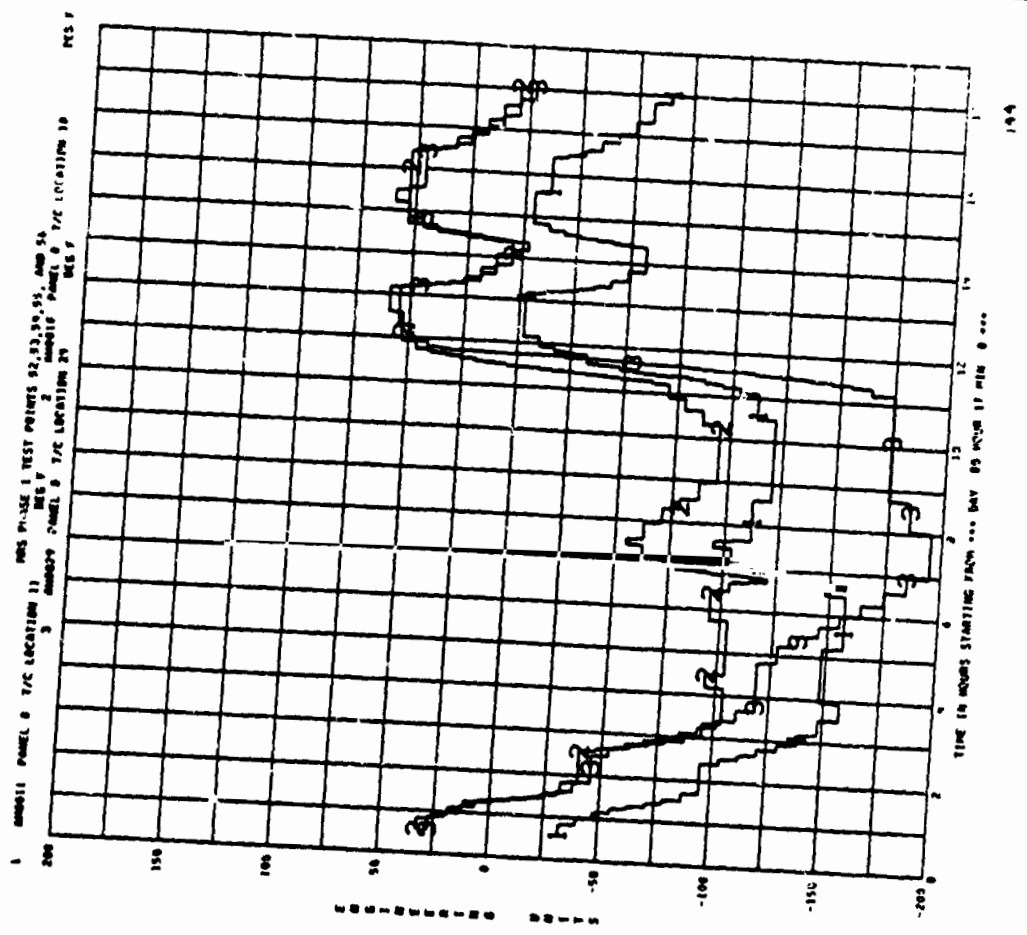
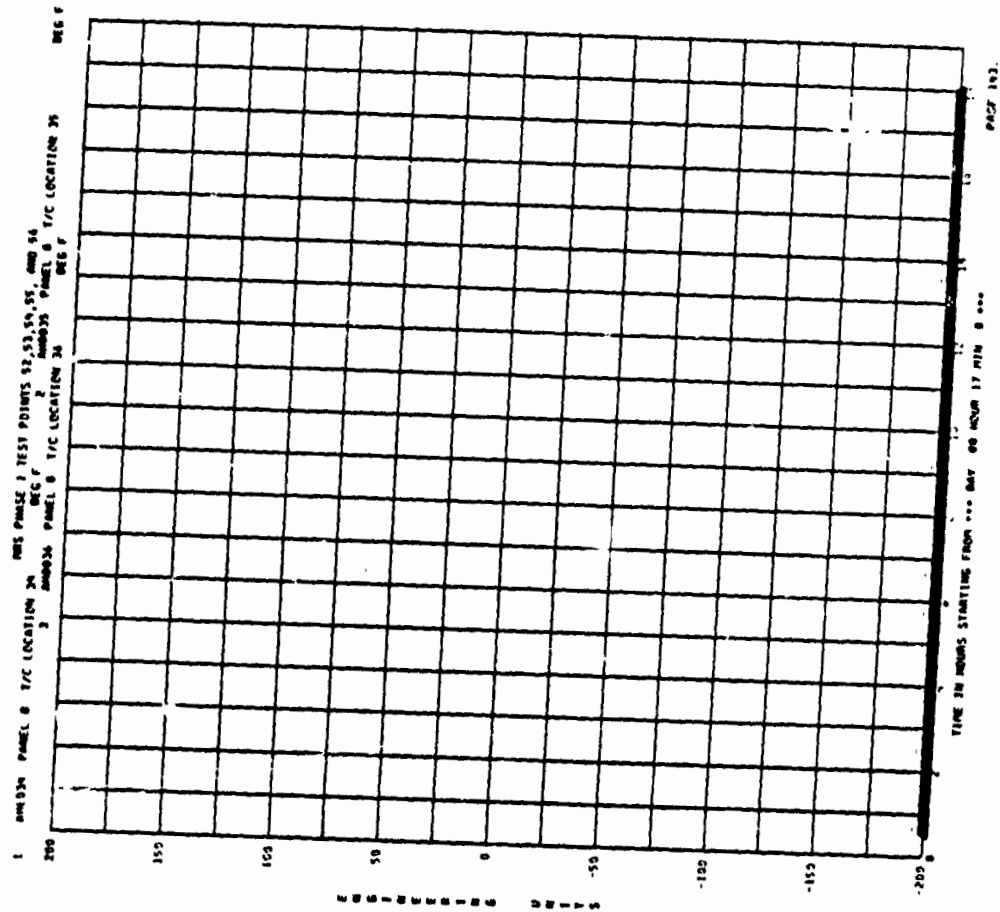
1 AC3012 PANEL 3 T/C LOCATION 12 DEG F  
 2 AC3015 PANEL 3 T/C LOCATION 15 DEG F  
 3 AC3016 PANEL 3 T/C LOCATION 16 DEG F  
 4 AC3017 PANEL 3 T/C LOCATION 17 DEG F



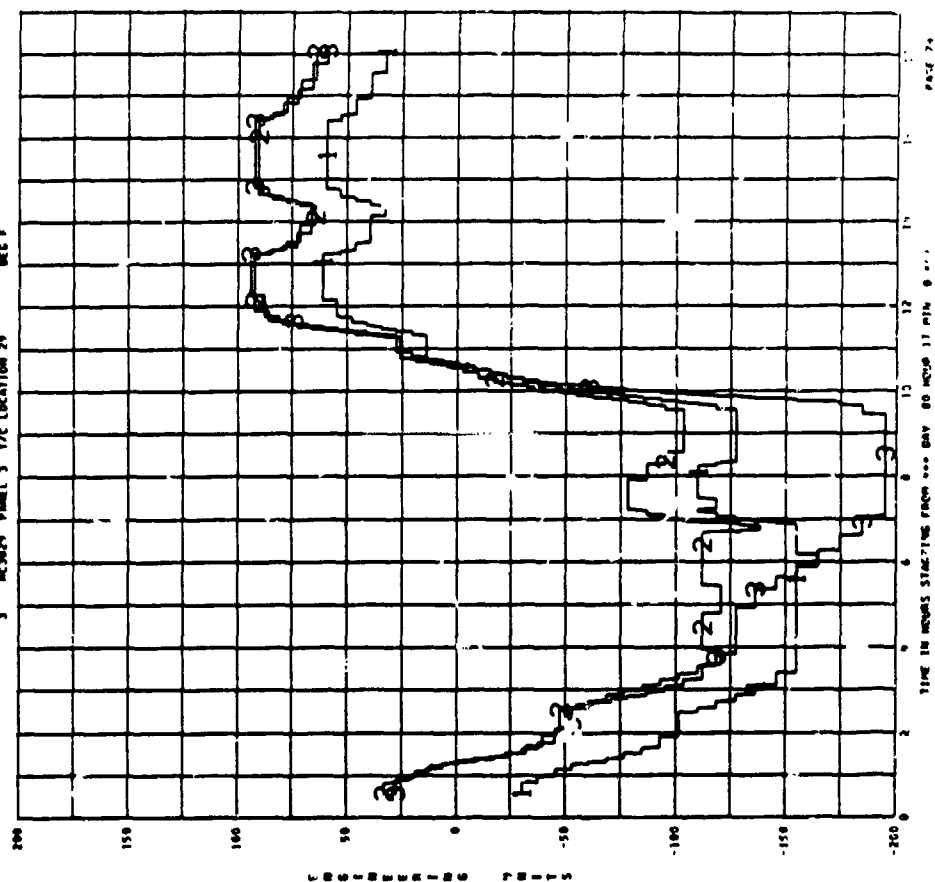
1 AC3009 PANEL 3 T/C LOCATION 09 DEG F  
 2 AC3020 PANEL 3 T/C LOCATION 20 DEG F  
 3 AC3020 PANEL 3 T/C LOCATION 20 DEG F

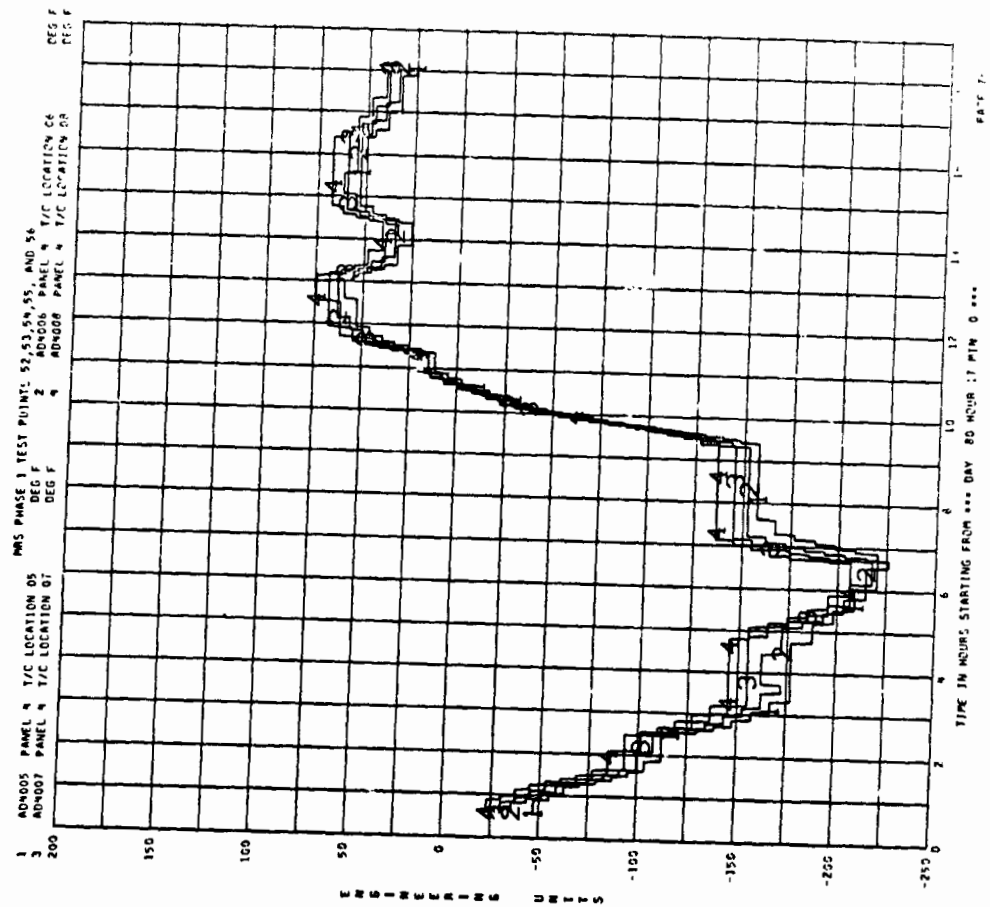
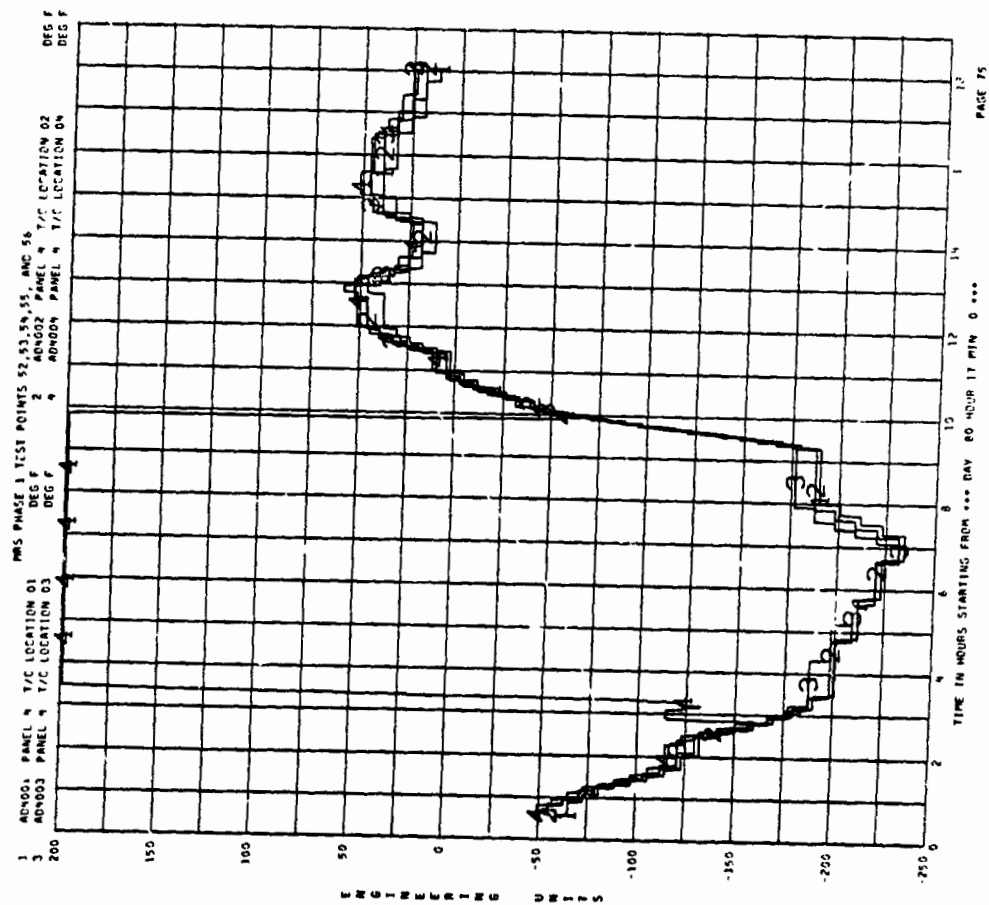


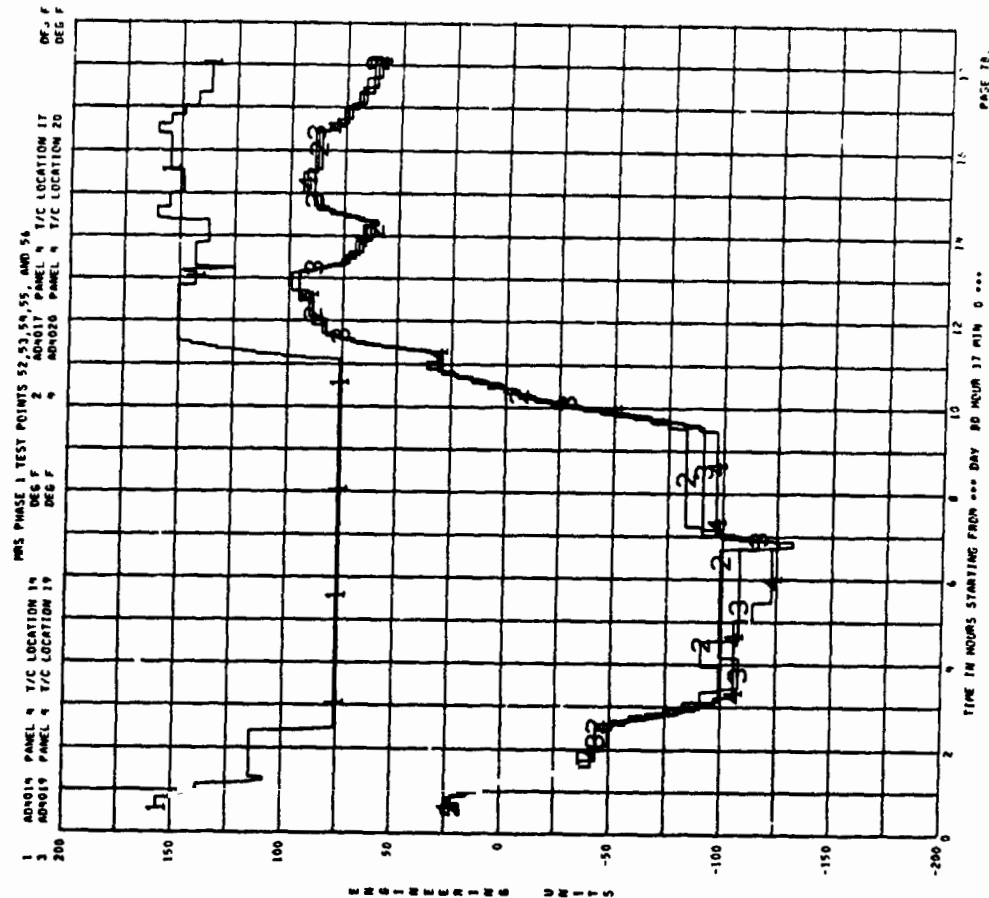
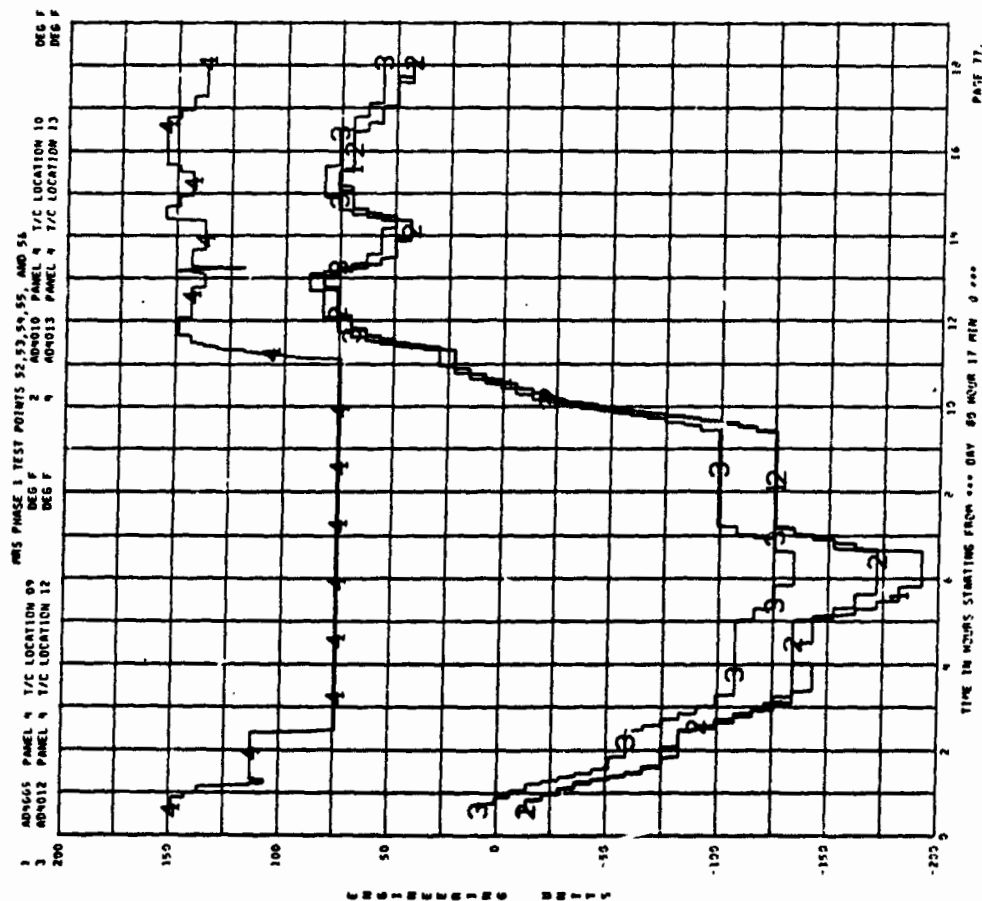


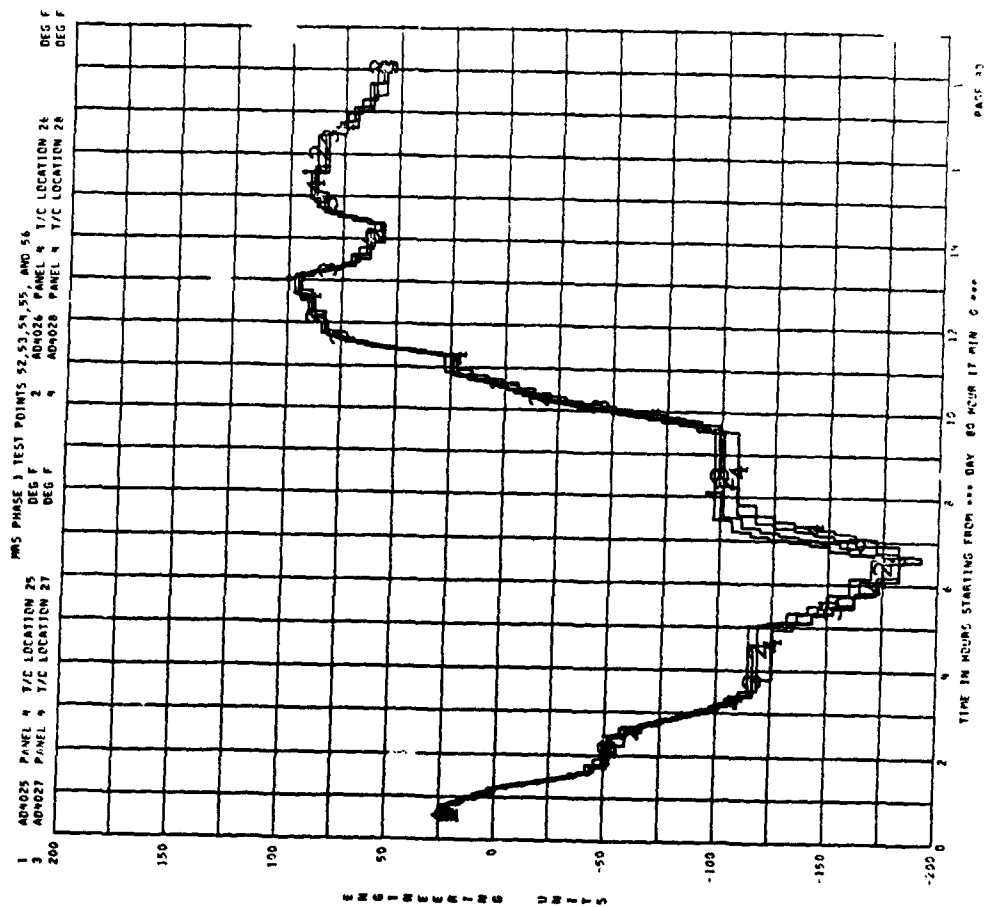
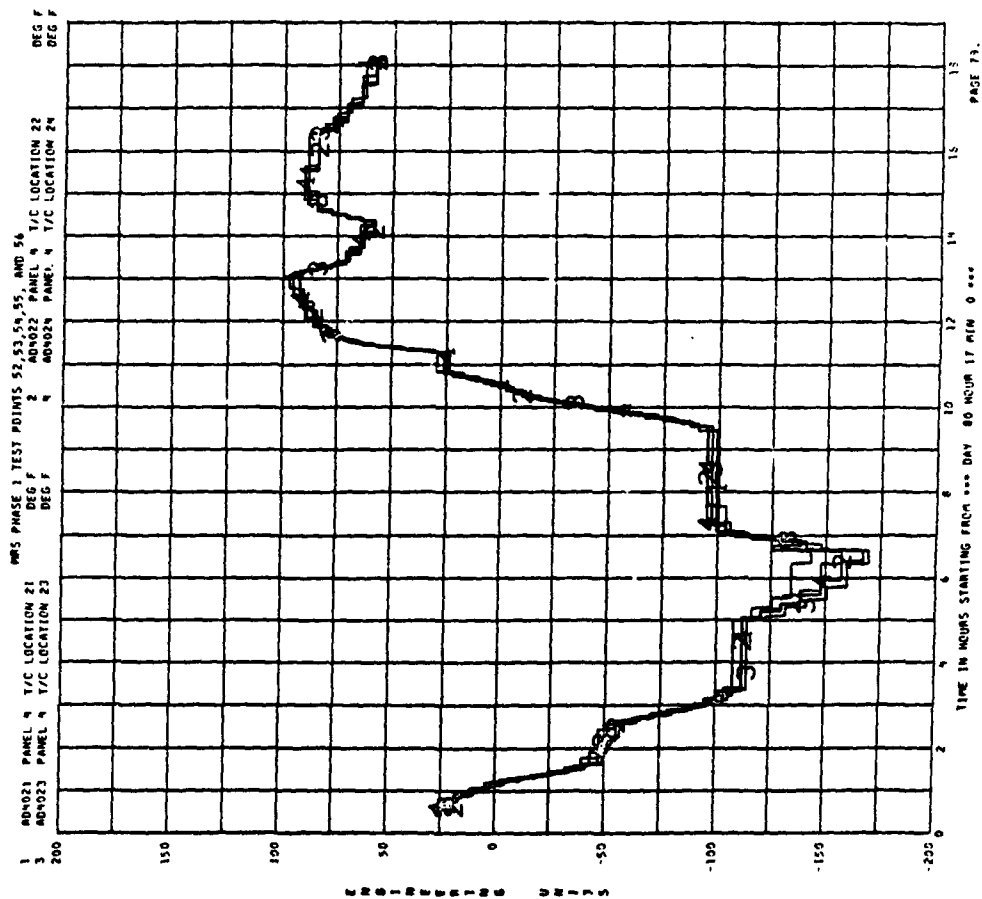


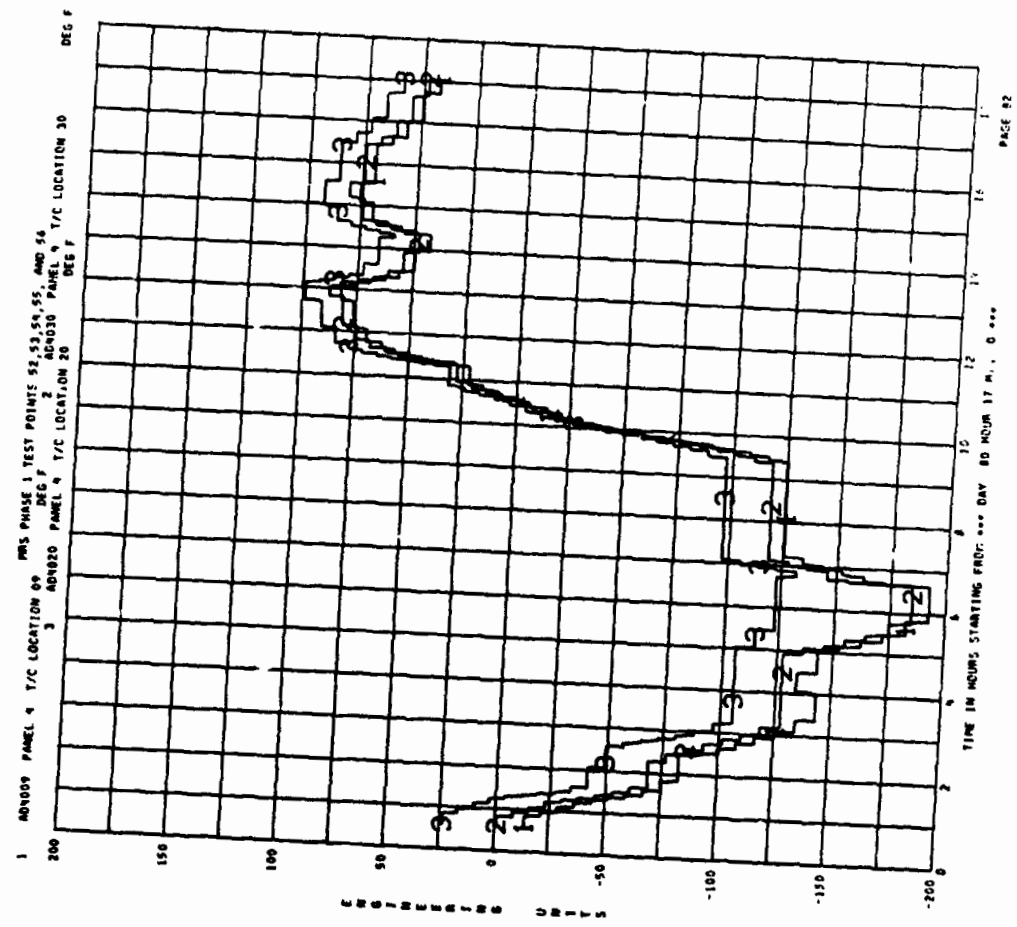
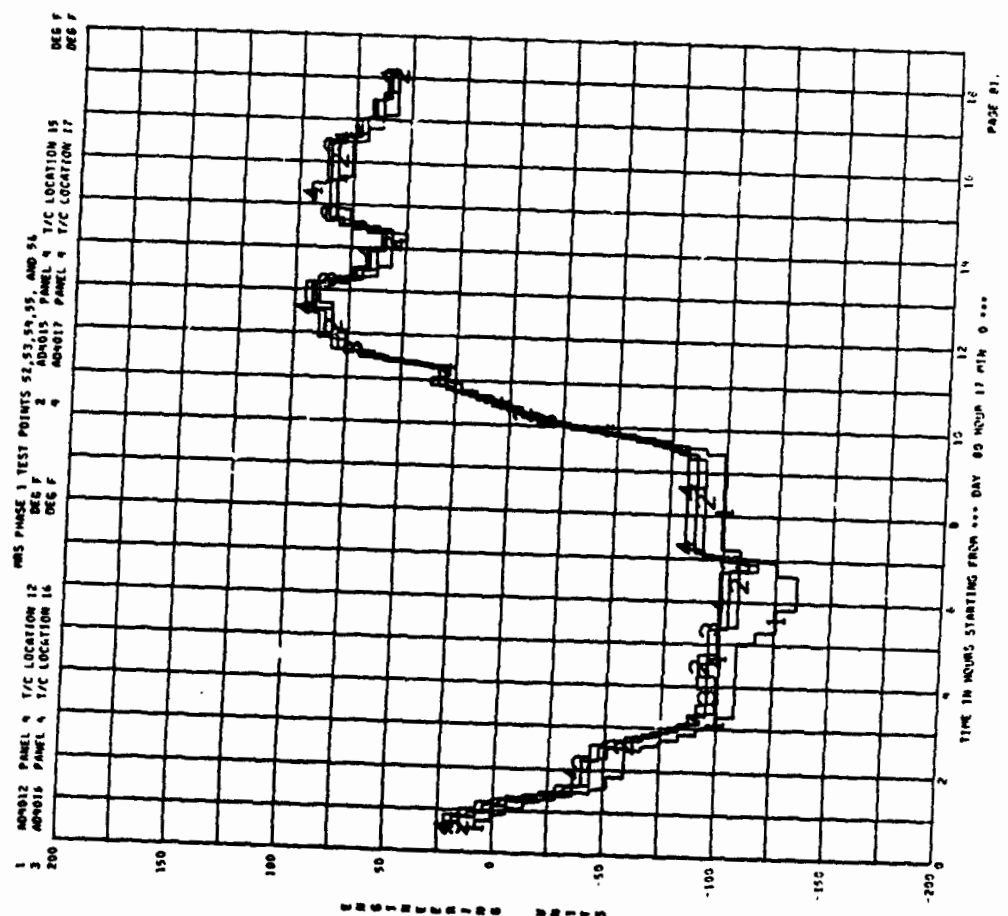
	PANEL 3	T/C LOCATION	11	2	AC3018	PANEL 3	T/C LOCATION	10	DES F
1	AC3011	PANEL 3	T/C LOCATION	11	2	AC3018	PANEL 3	T/C LOCATION	10
				3	AC3029	PANEL 3	T/C LOCATION	29	DES F



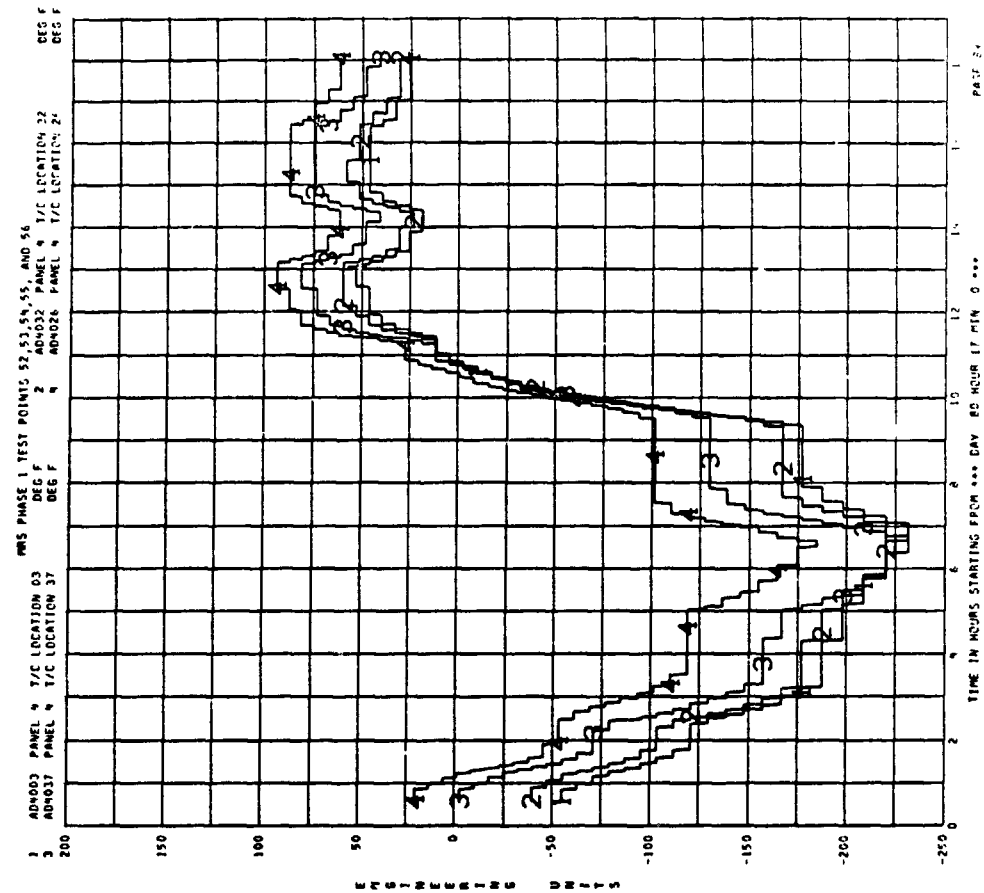
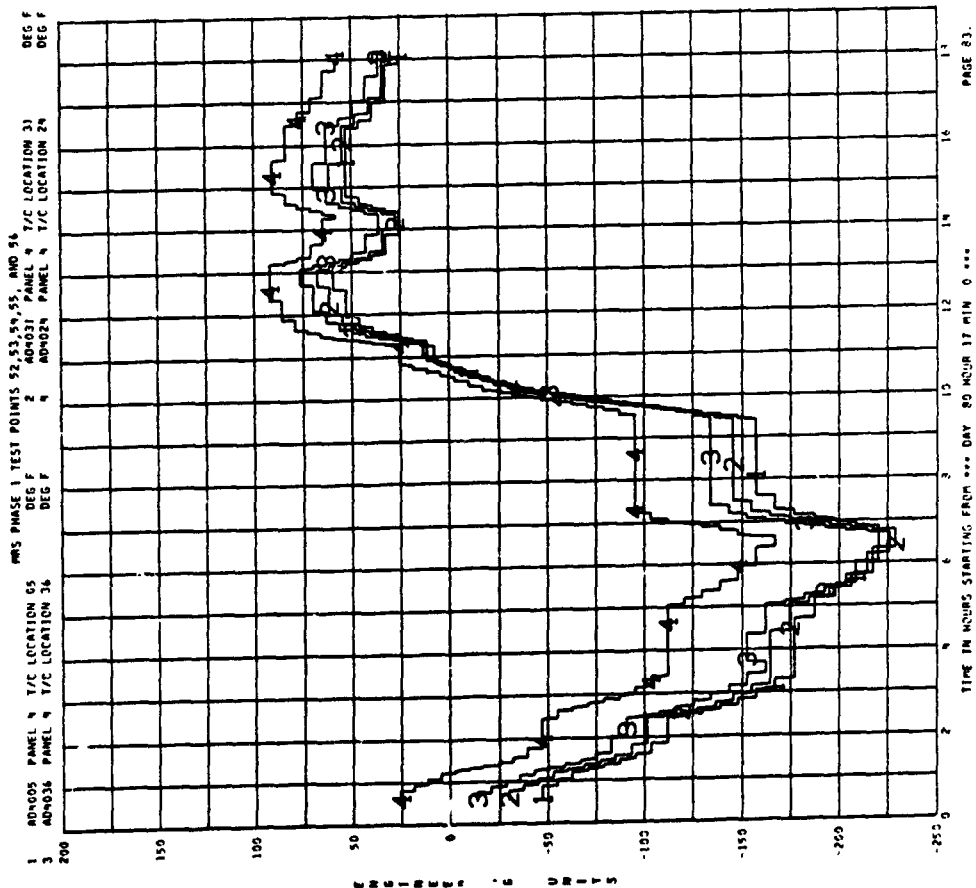


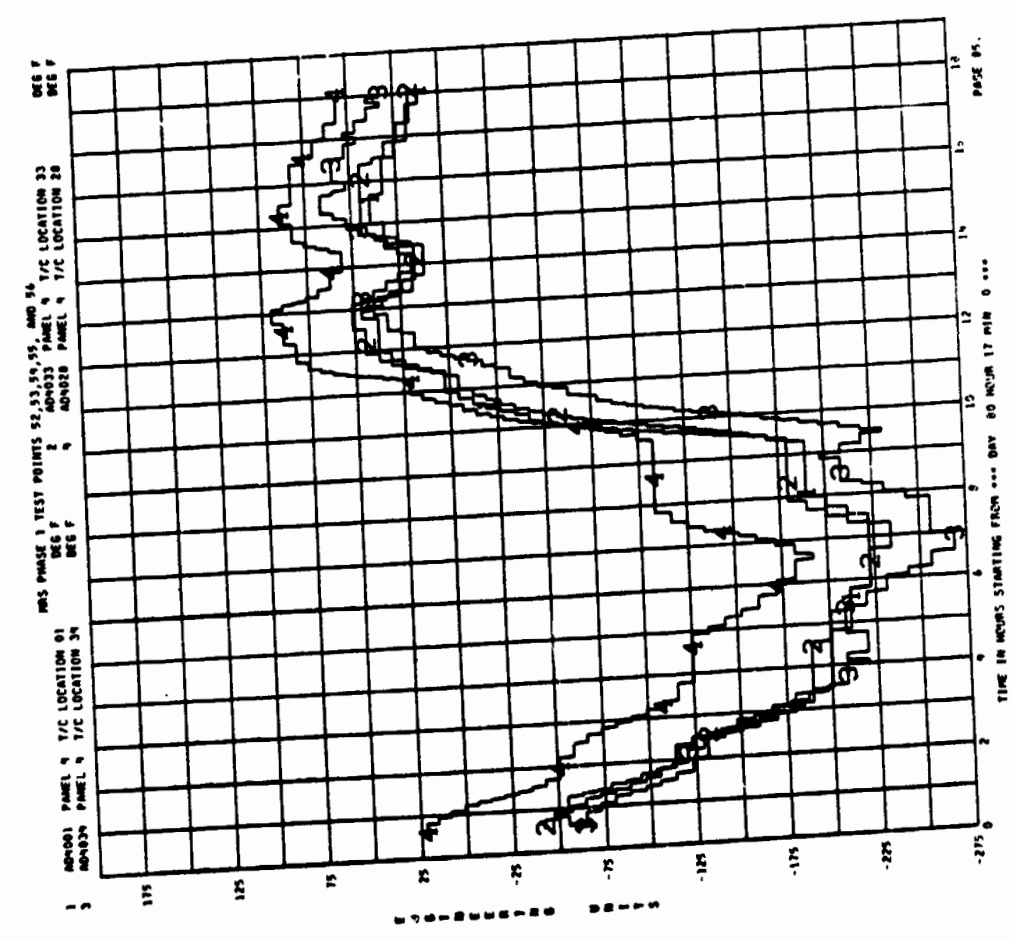
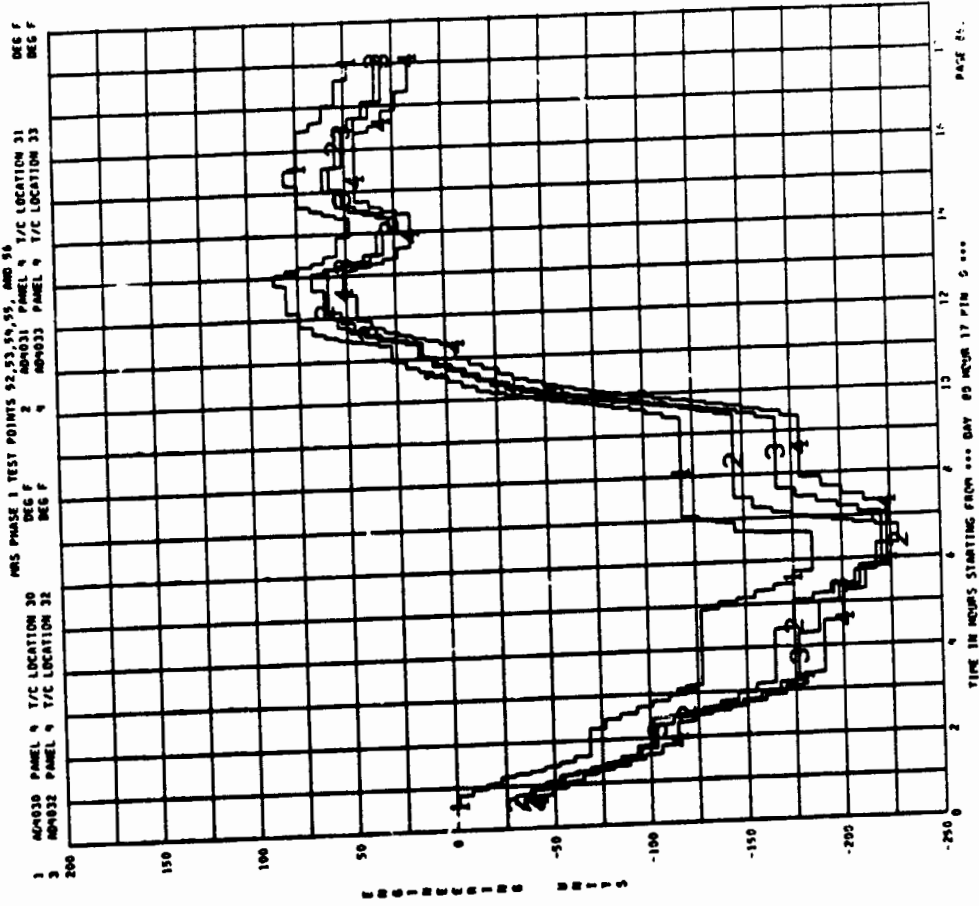


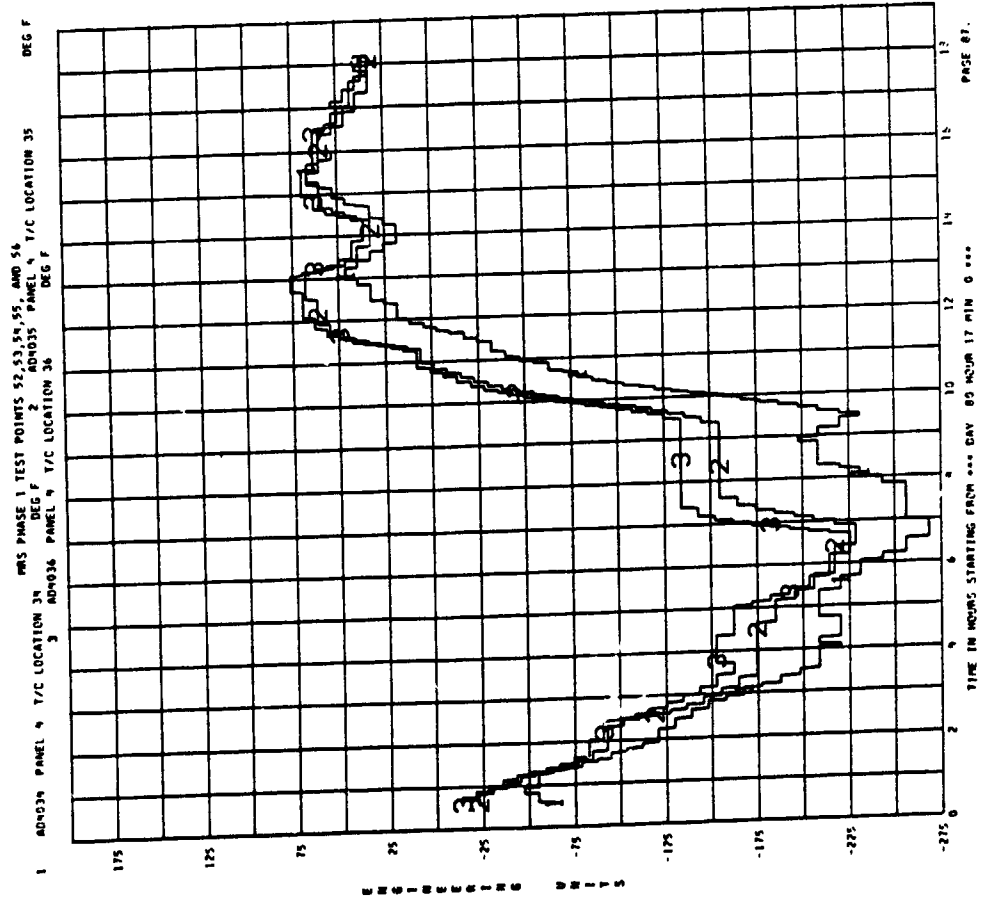
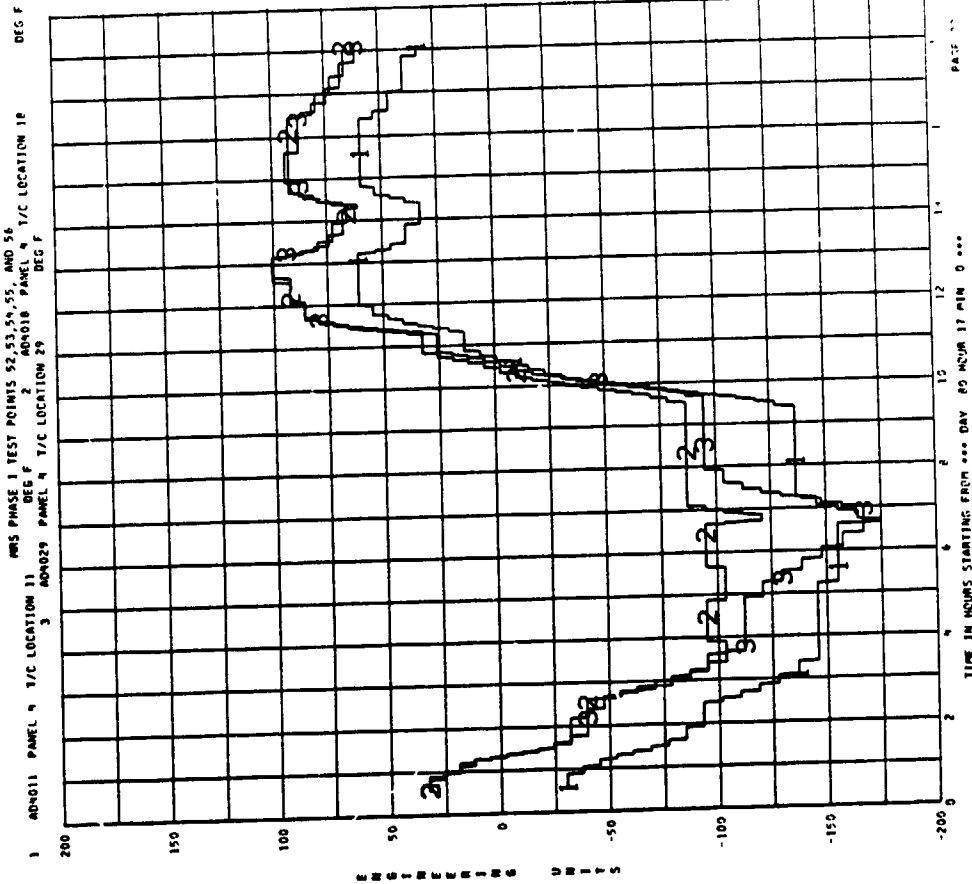


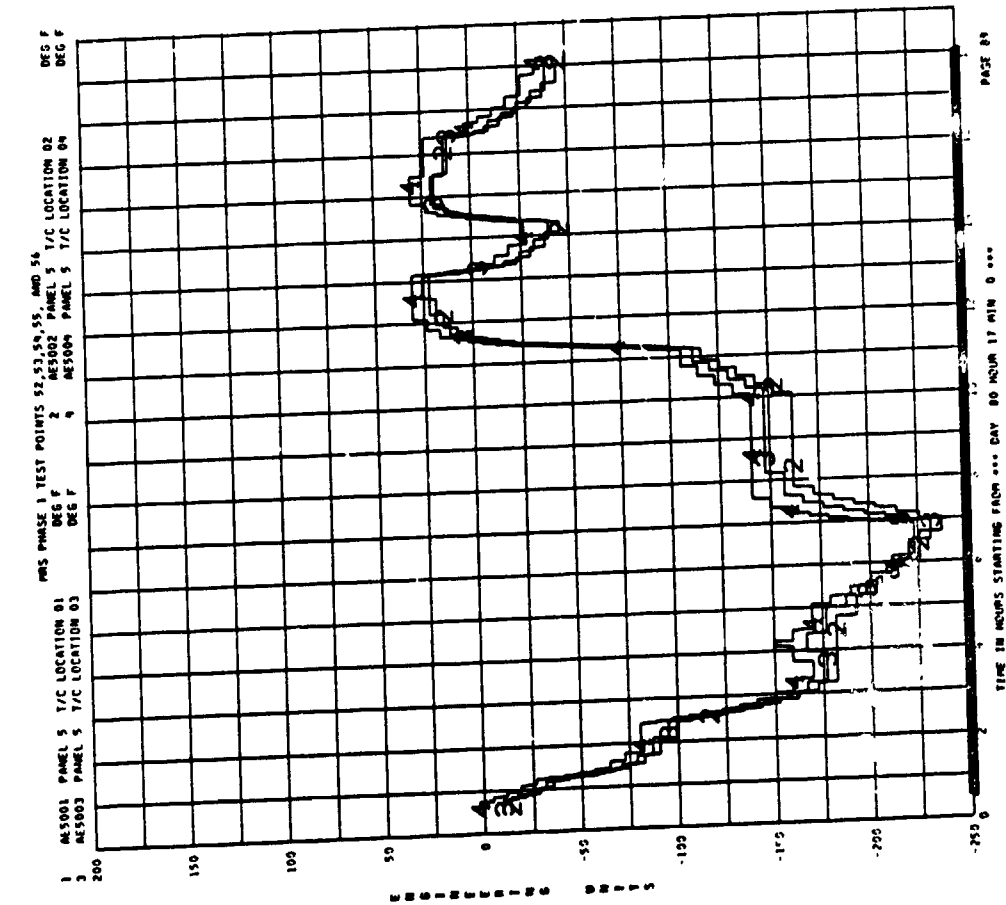
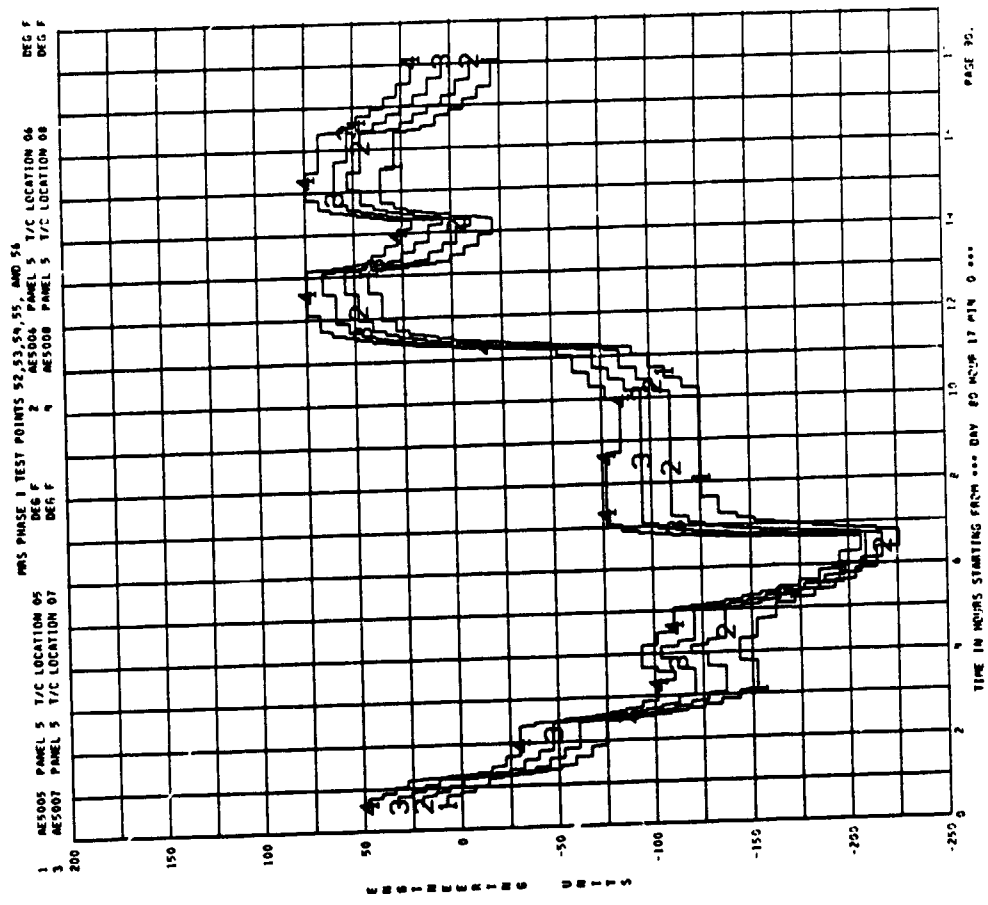


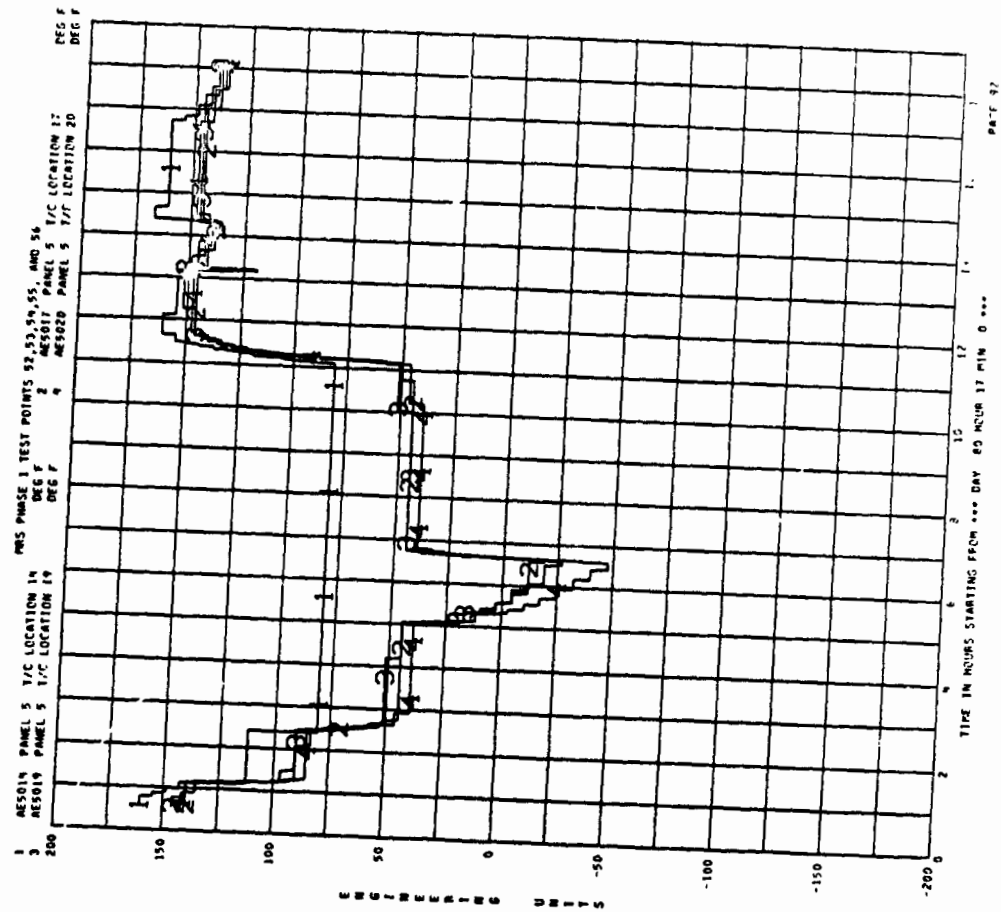
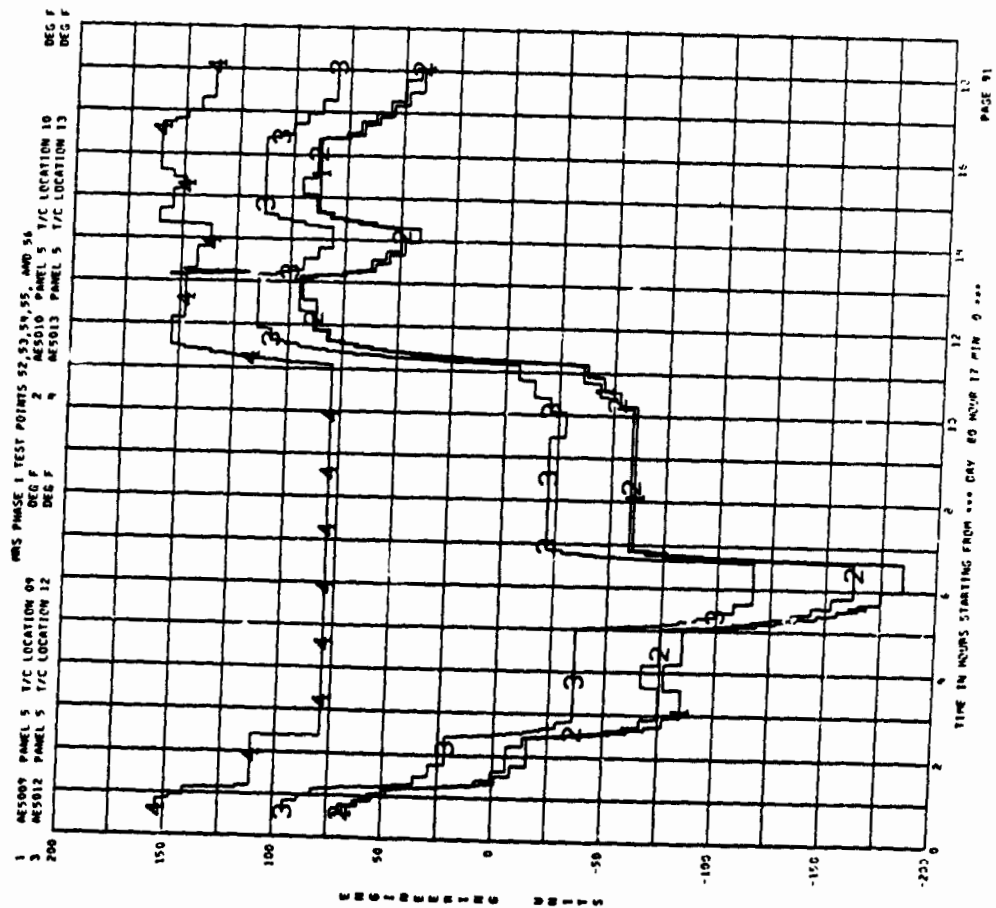


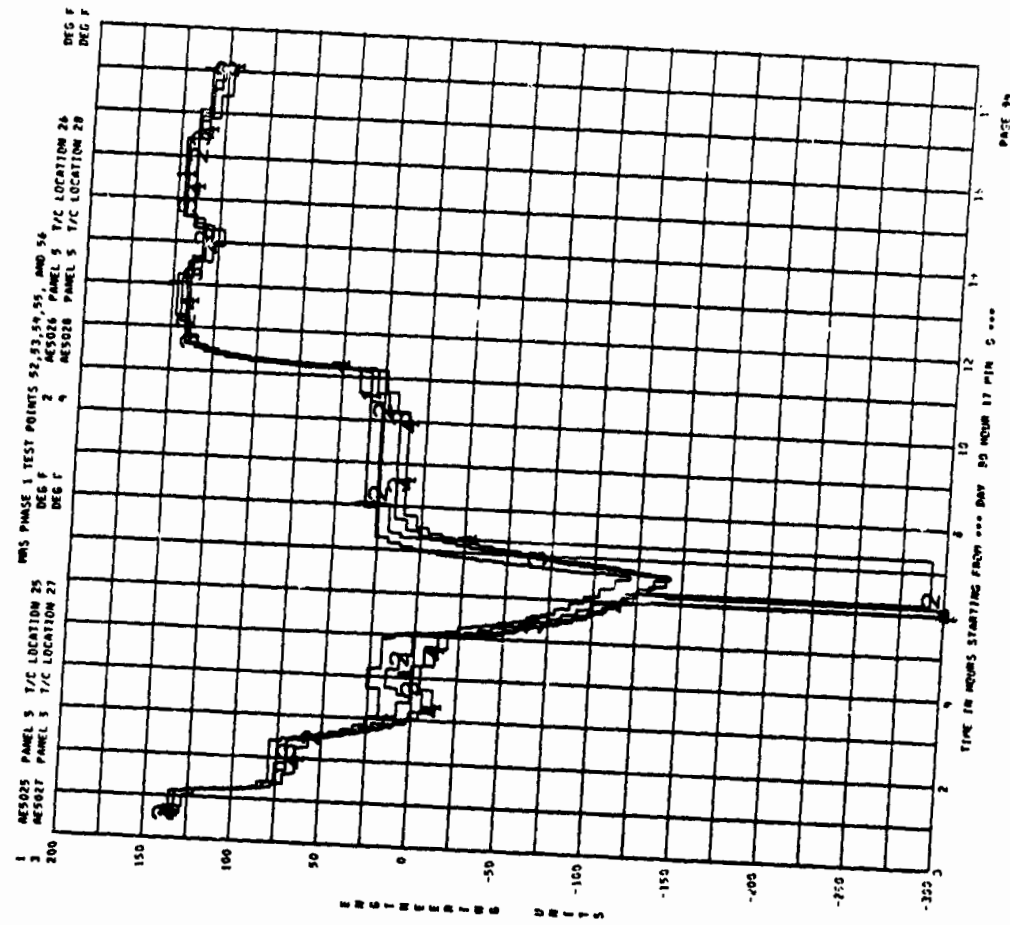
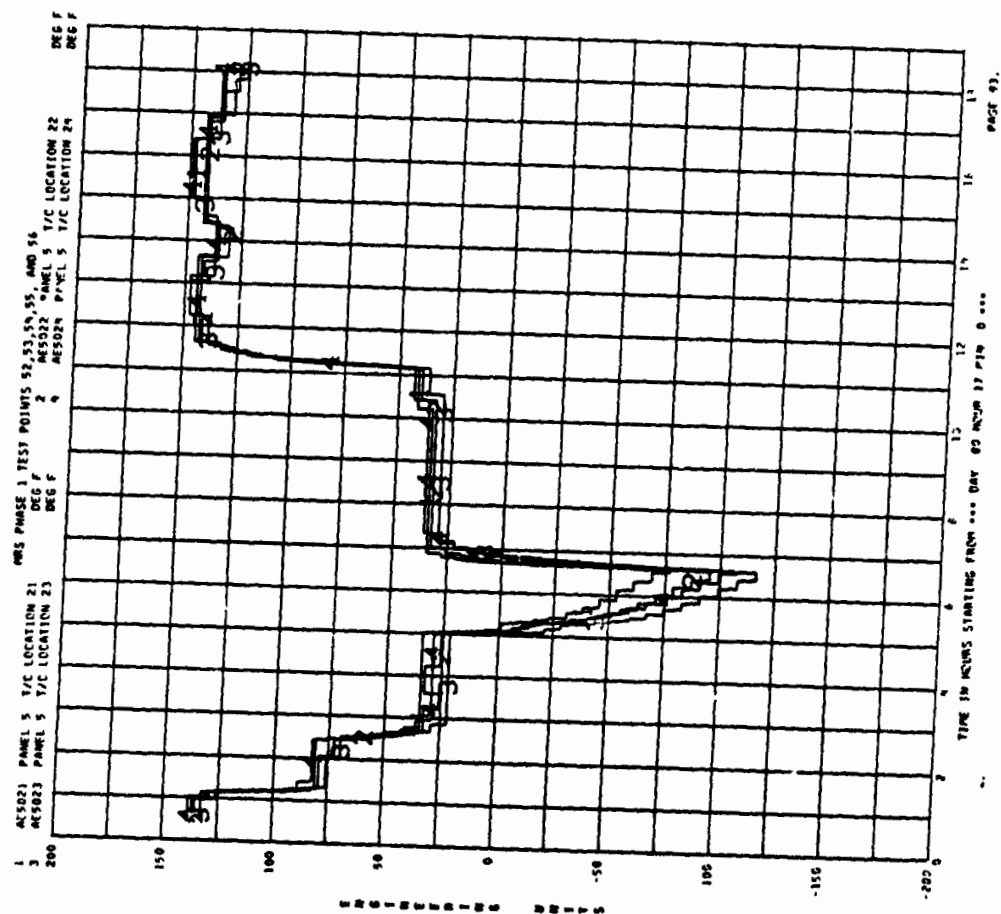




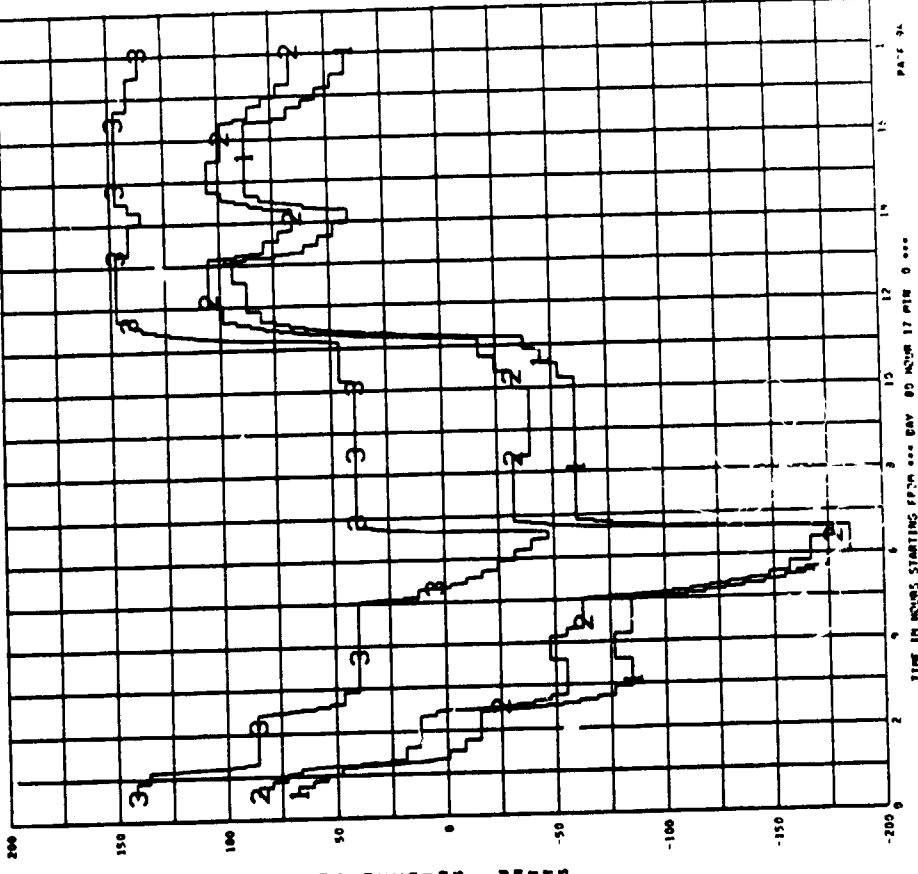




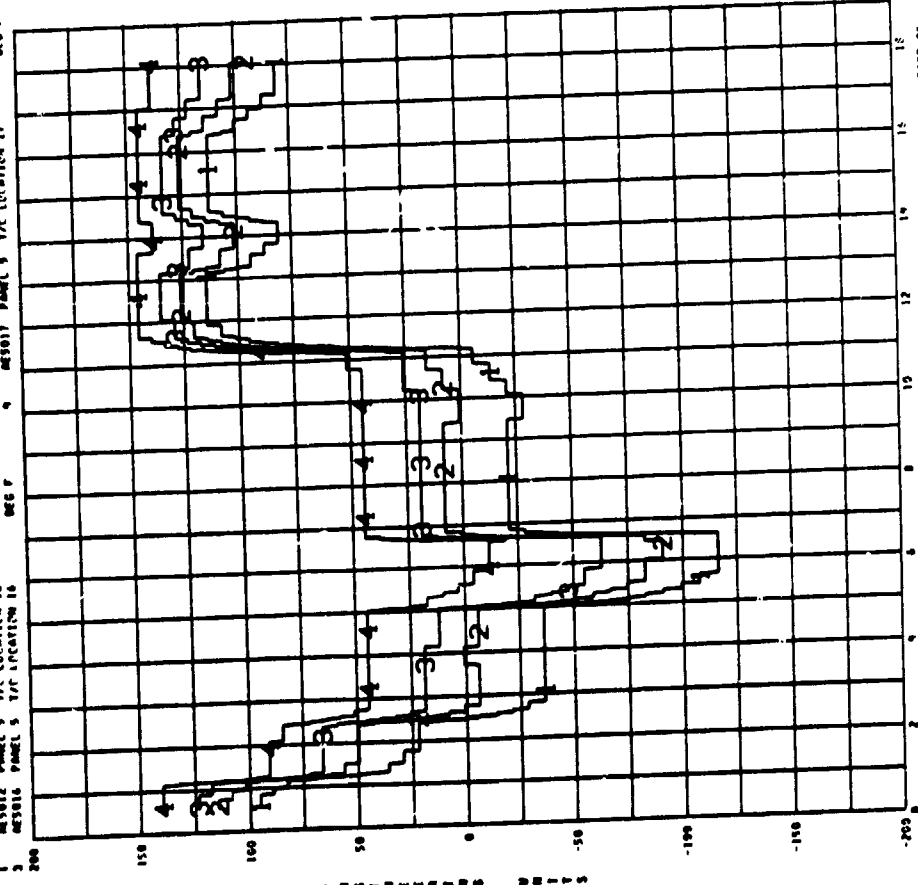


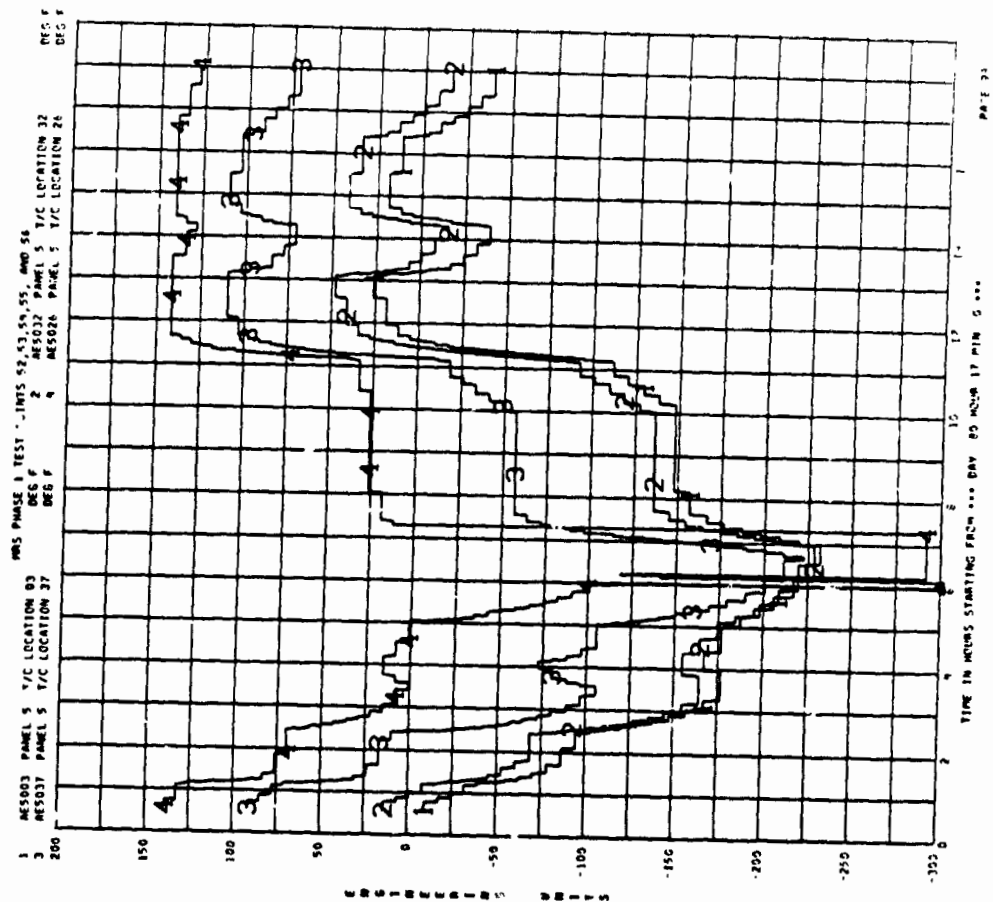
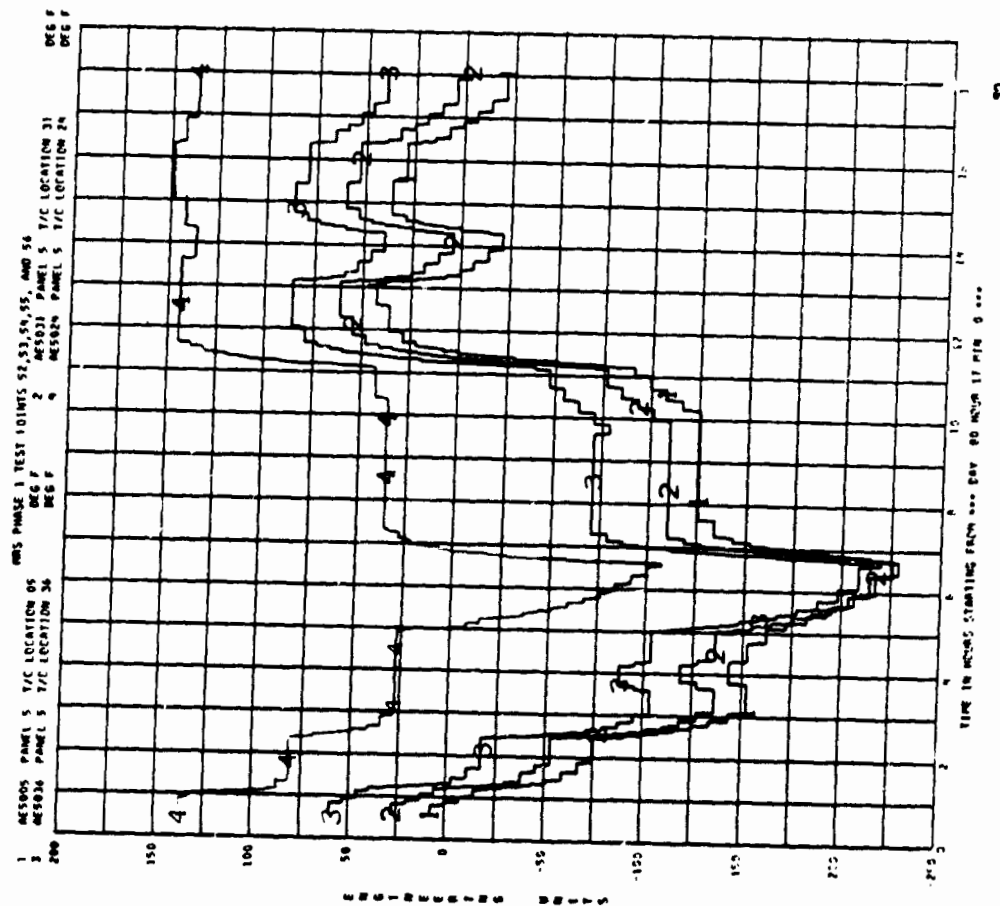


1 MES009 PANEL 5 T/C LOCATION 00  
 2 MES010 PANEL 5 T/C LOCATION 20  
 3 MES011 PANEL 5 T/C LOCATION 30  
 4 MES012 PANEL 5 T/C LOCATION 40  
 5 MES013 PANEL 5 T/C LOCATION 50  
 6 MES014 PANEL 5 T/C LOCATION 60  
 7 MES015 PANEL 5 T/C LOCATION 70  
 8 MES016 PANEL 5 T/C LOCATION 80  
 9 MES017 PANEL 5 T/C LOCATION 90  
 10 MES018 PANEL 5 T/C LOCATION 100  
 11 MES019 PANEL 5 T/C LOCATION 110  
 12 MES020 PANEL 5 T/C LOCATION 120  
 13 MES021 PANEL 5 T/C LOCATION 130  
 14 MES022 PANEL 5 T/C LOCATION 140  
 15 MES023 PANEL 5 T/C LOCATION 150  
 16 MES024 PANEL 5 T/C LOCATION 160  
 17 MES025 PANEL 5 T/C LOCATION 170  
 18 MES026 PANEL 5 T/C LOCATION 180  
 19 MES027 PANEL 5 T/C LOCATION 190  
 20 MES028 PANEL 5 T/C LOCATION 200

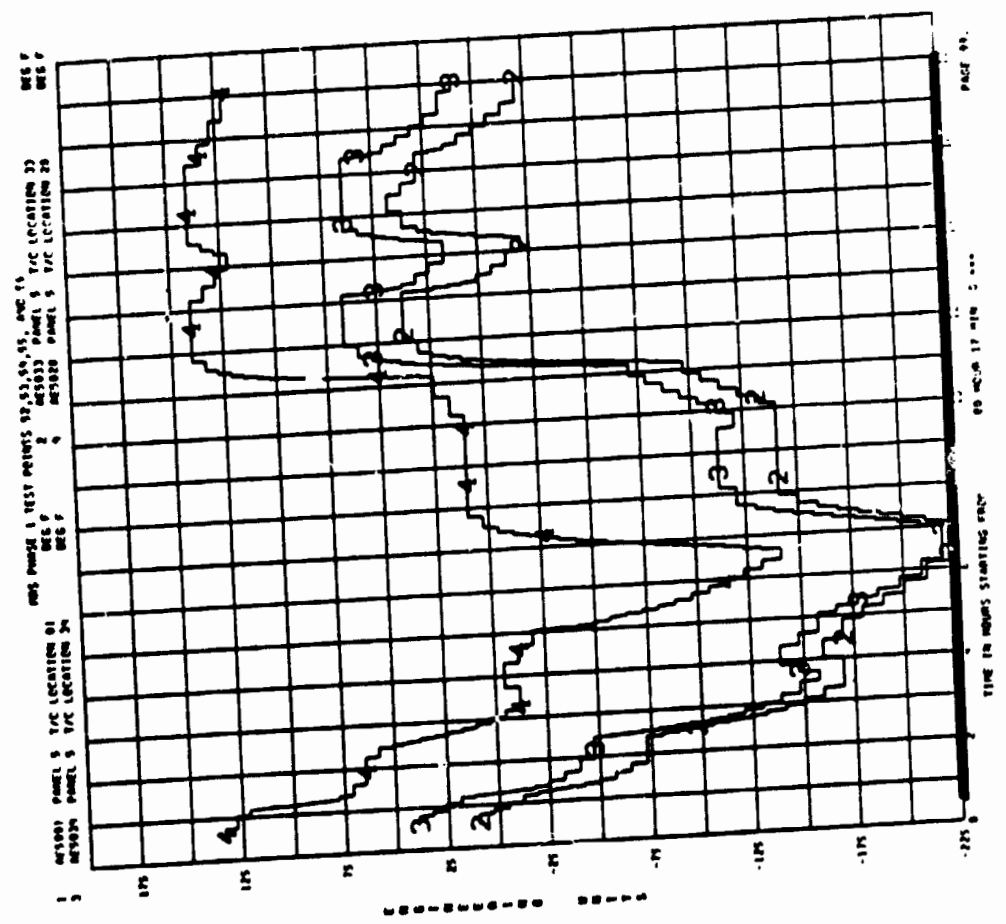
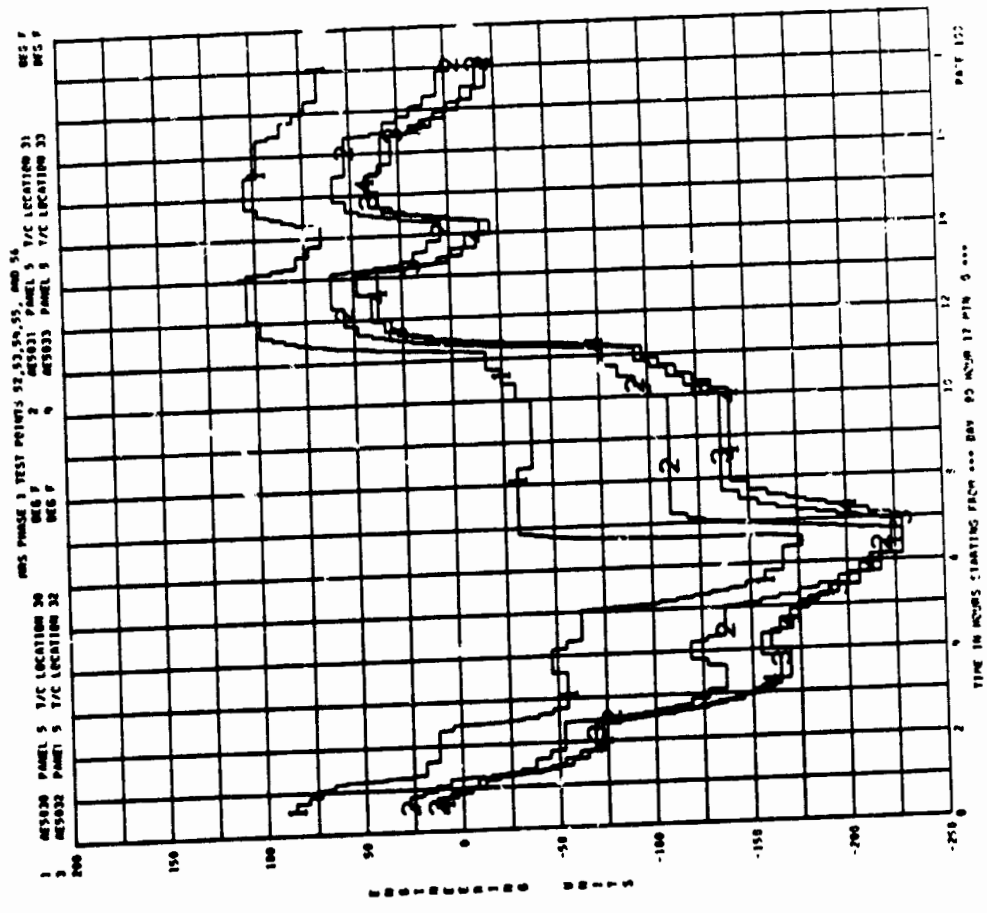


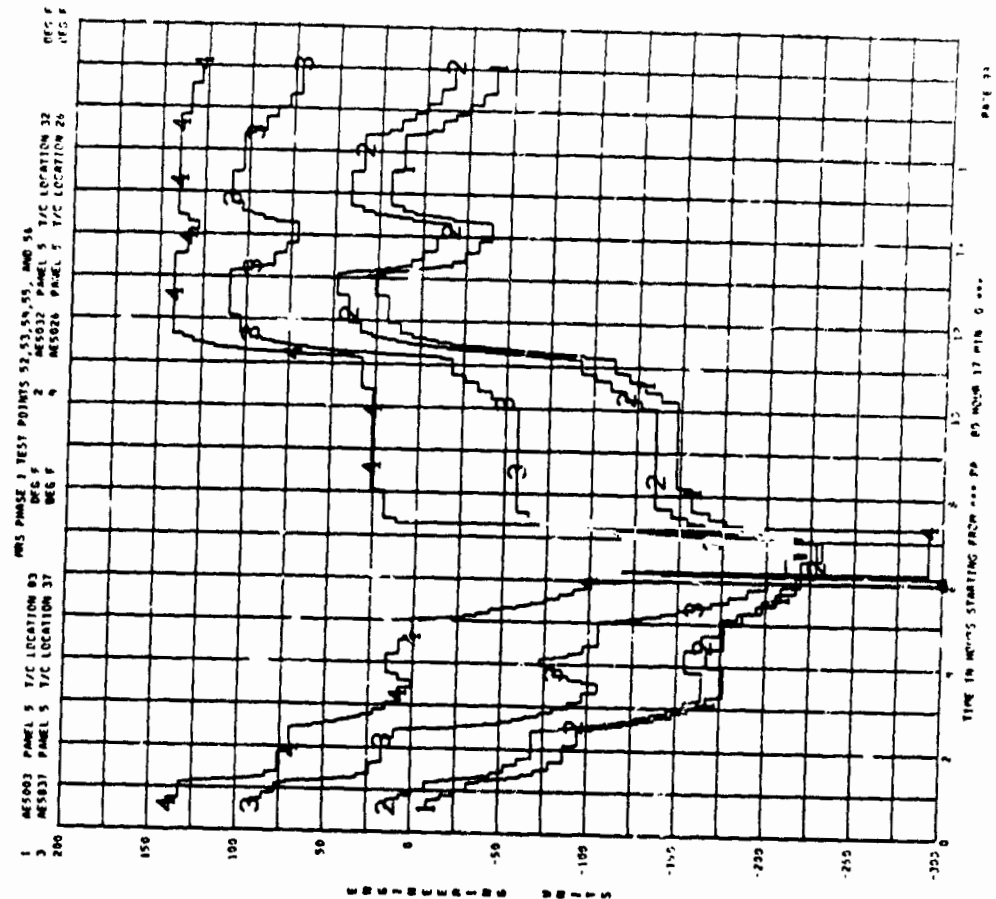
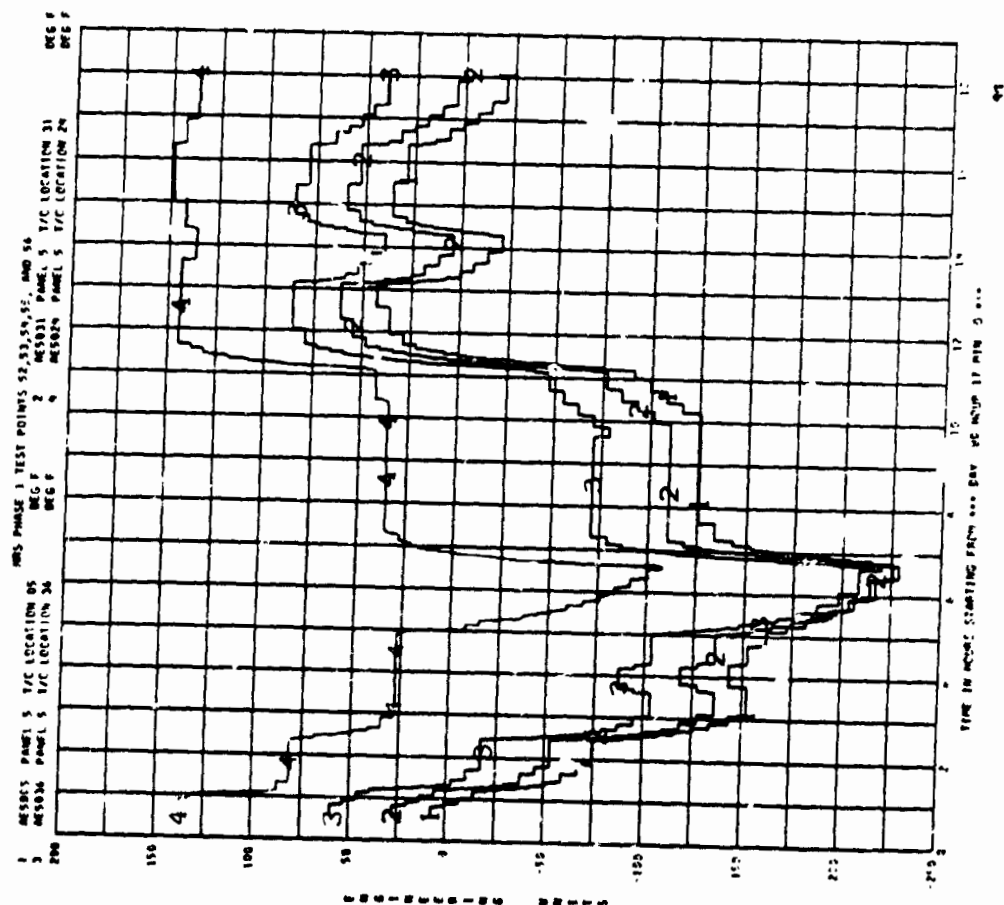
1 MES012 PANEL 5 T/C LOCATION 12  
 2 MES013 PANEL 5 T/C LOCATION 13  
 3 MES014 PANEL 5 T/C LOCATION 14  
 4 MES015 PANEL 5 T/C LOCATION 15  
 5 MES016 PANEL 5 T/C LOCATION 16  
 6 MES017 PANEL 5 T/C LOCATION 17  
 7 MES018 PANEL 5 T/C LOCATION 18  
 8 MES019 PANEL 5 T/C LOCATION 19  
 9 MES020 PANEL 5 T/C LOCATION 20  
 10 MES021 PANEL 5 T/C LOCATION 21  
 11 MES022 PANEL 5 T/C LOCATION 22  
 12 MES023 PANEL 5 T/C LOCATION 23  
 13 MES024 PANEL 5 T/C LOCATION 24  
 14 MES025 PANEL 5 T/C LOCATION 25  
 15 MES026 PANEL 5 T/C LOCATION 26  
 16 MES027 PANEL 5 T/C LOCATION 27  
 17 MES028 PANEL 5 T/C LOCATION 28  
 18 MES029 PANEL 5 T/C LOCATION 29  
 19 MES030 PANEL 5 T/C LOCATION 30  
 20 MES031 PANEL 5 T/C LOCATION 31

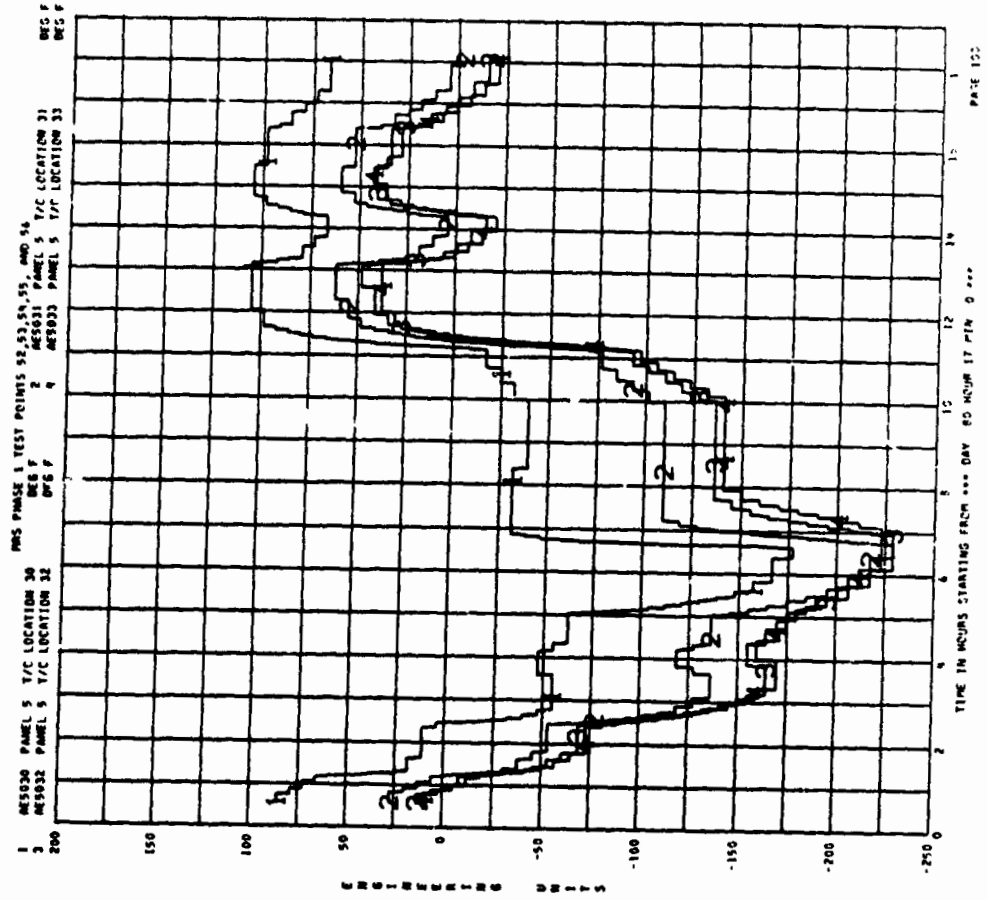
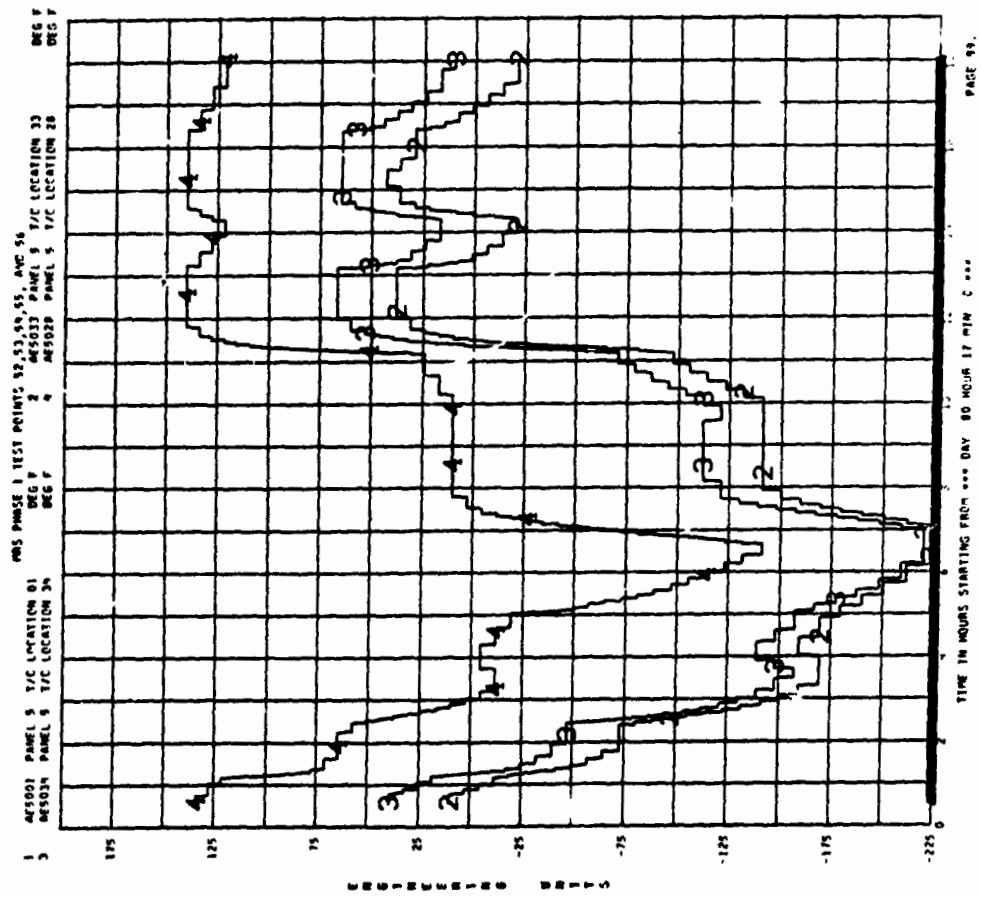


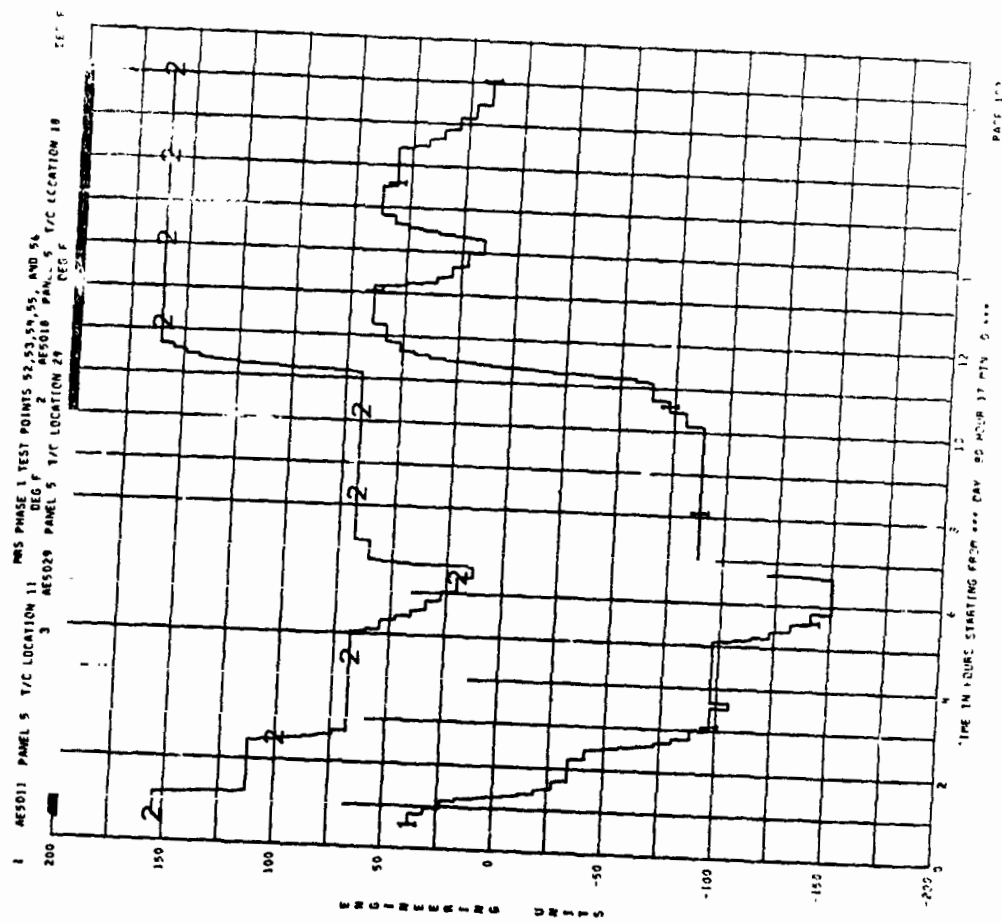
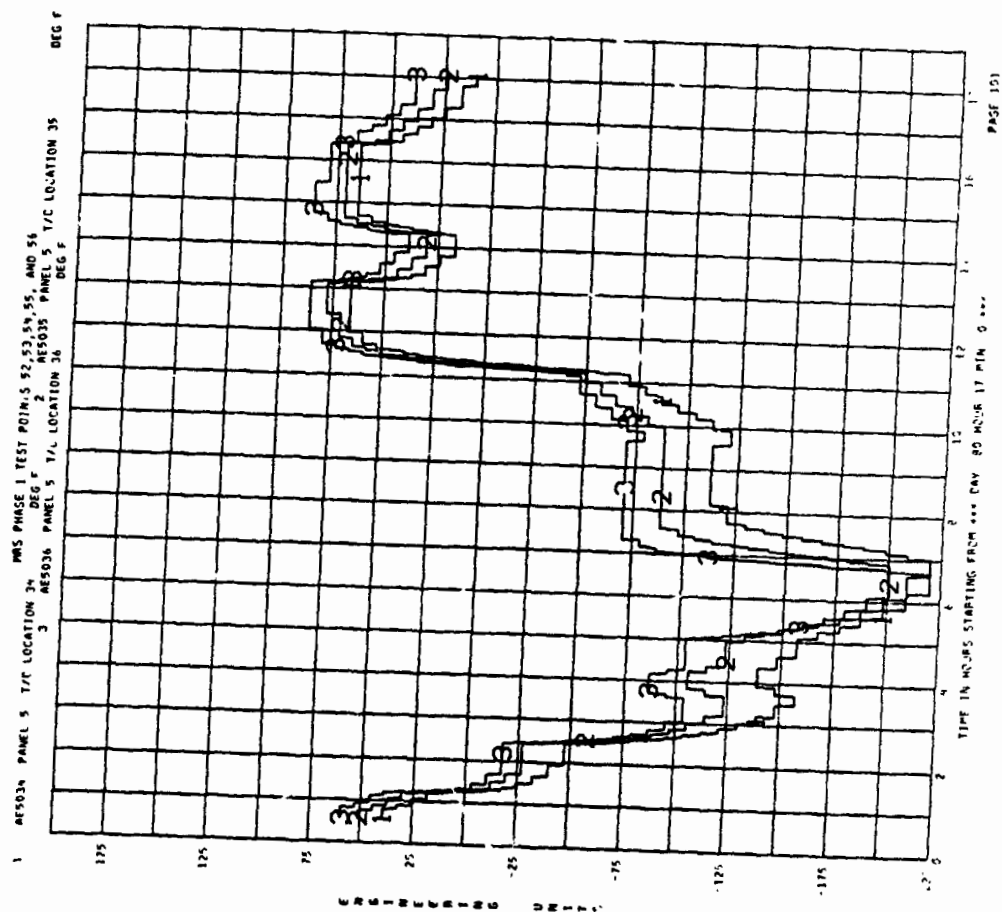


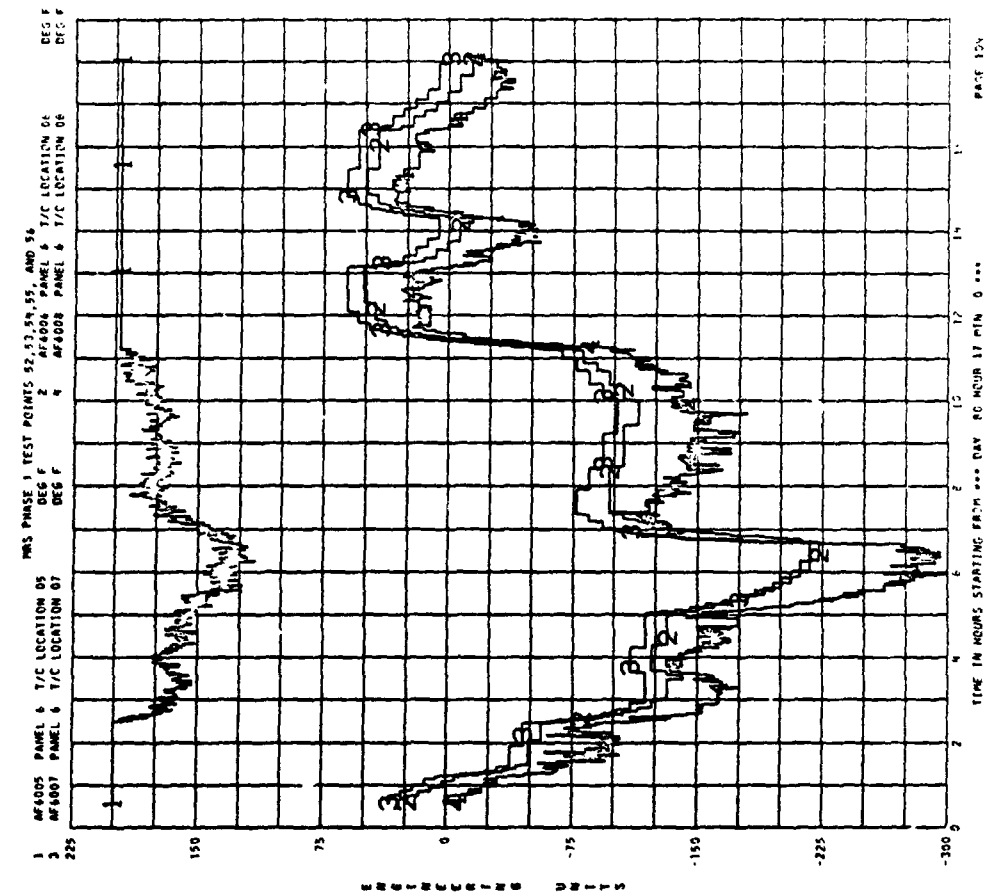
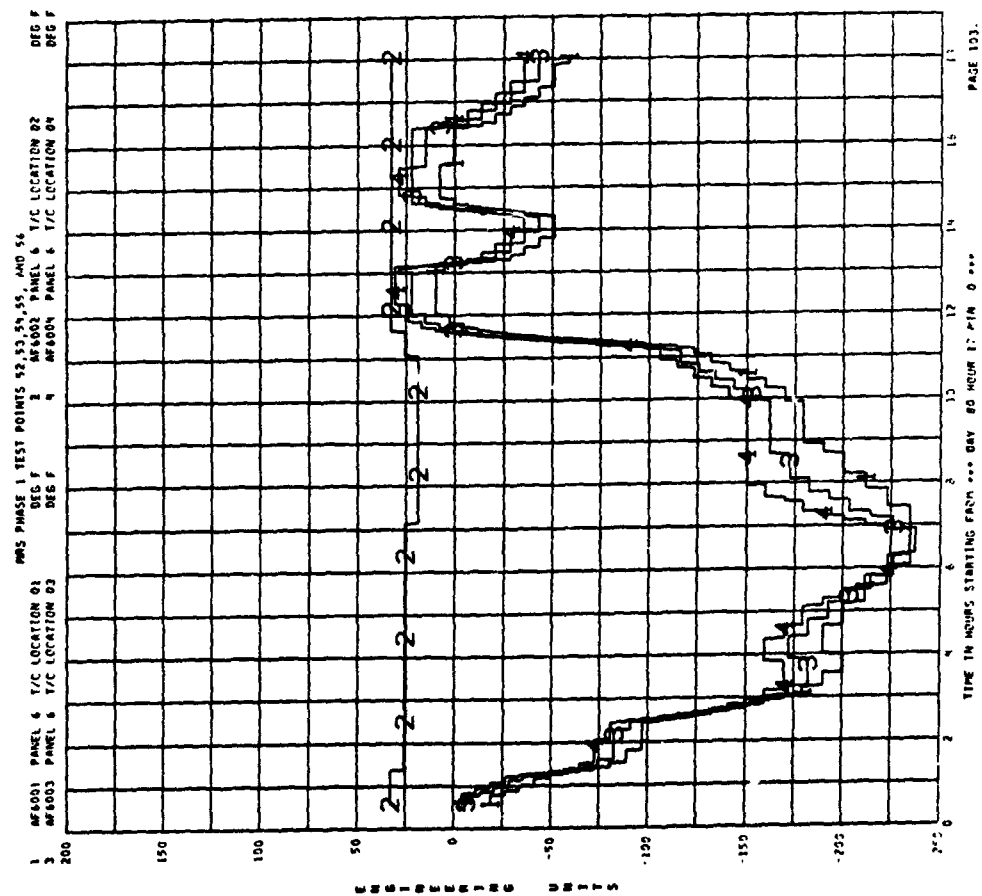


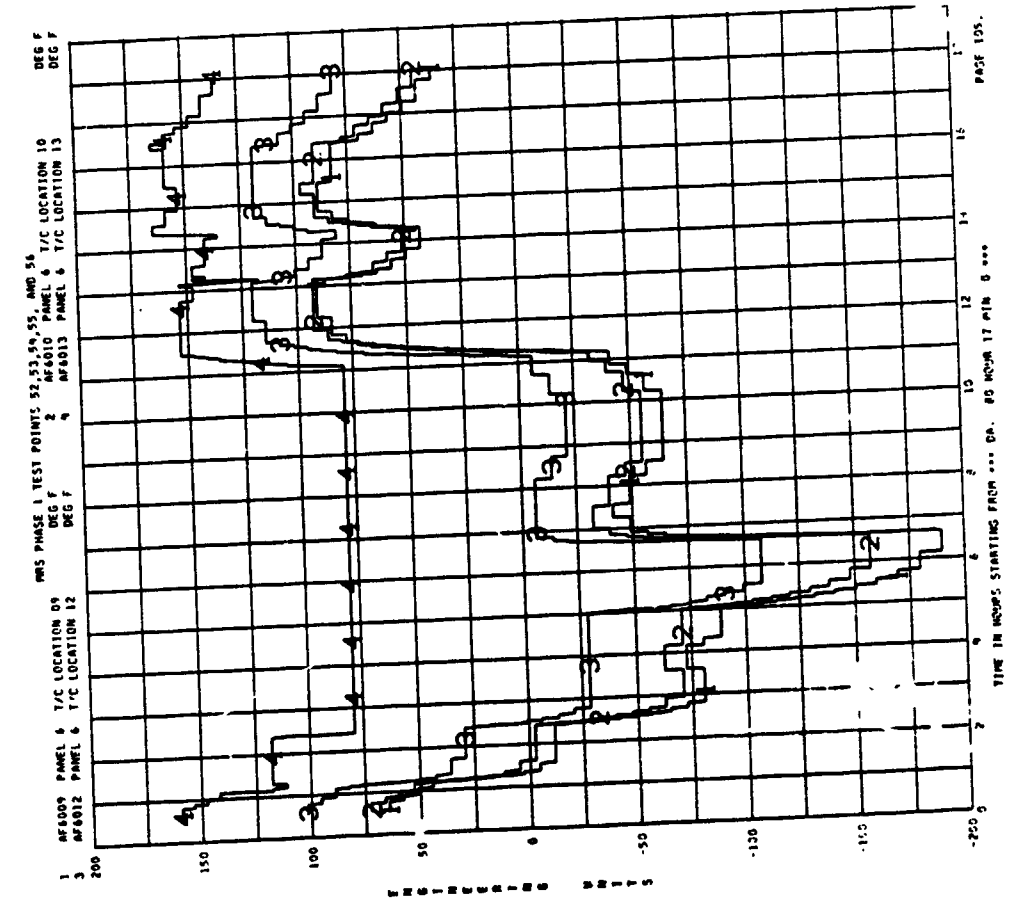
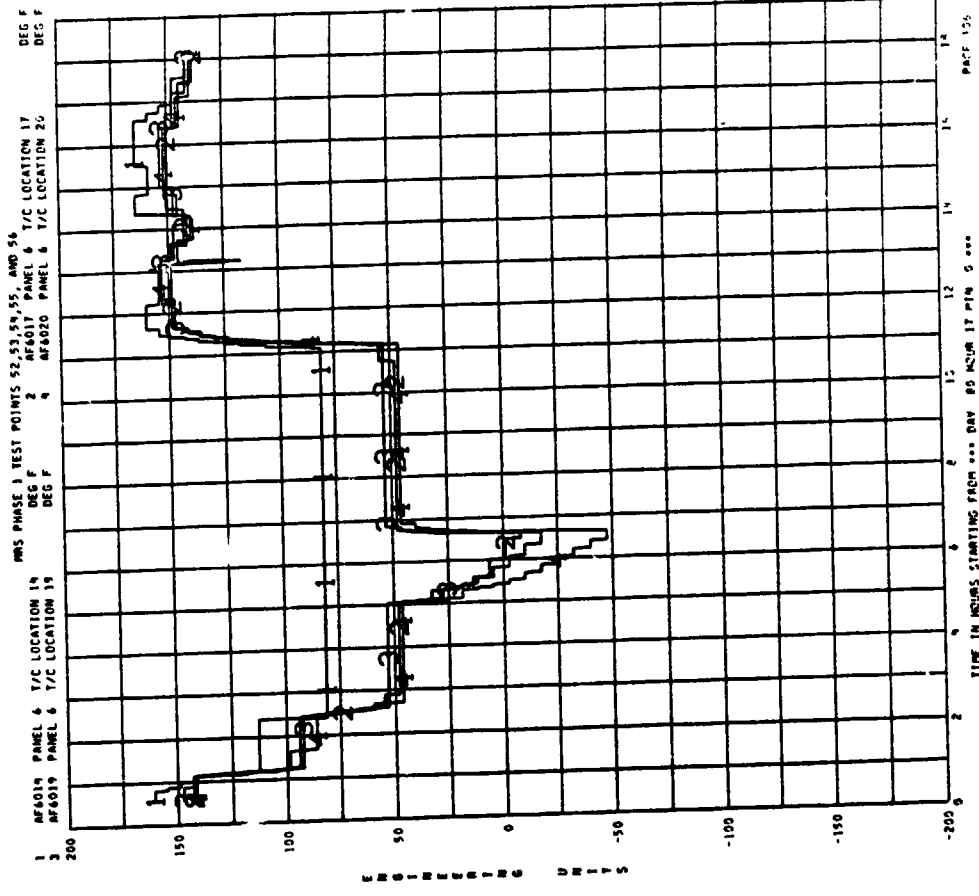


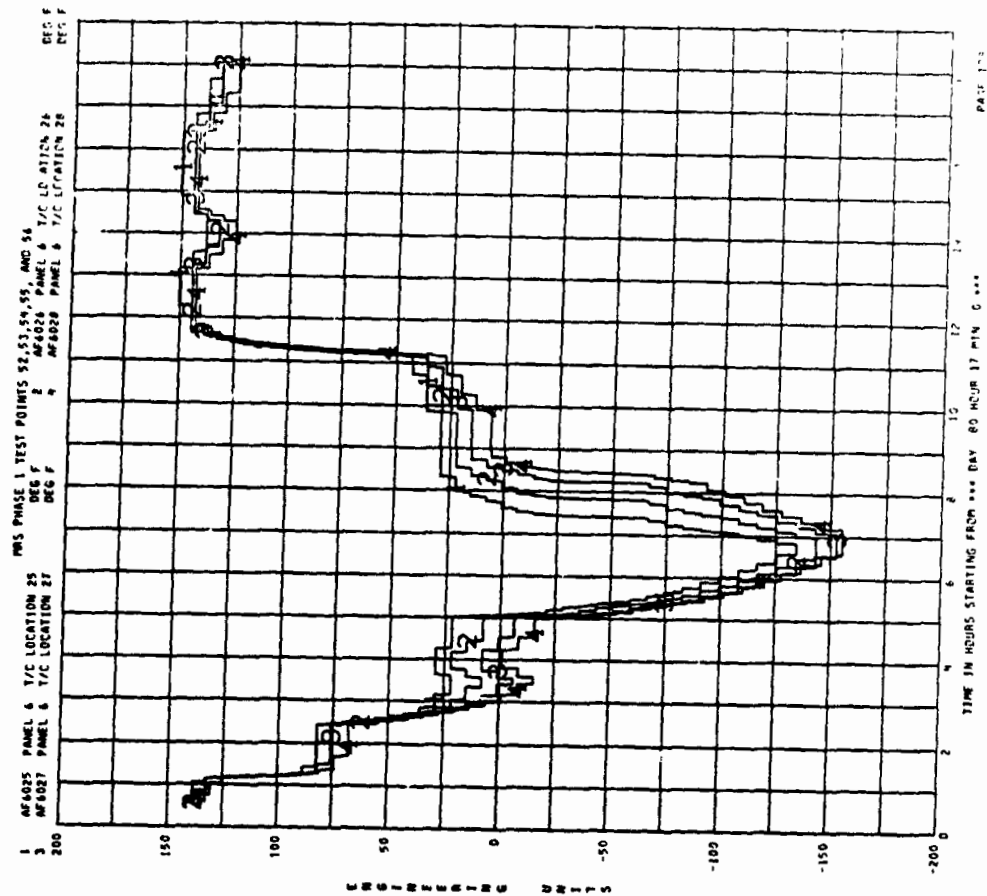
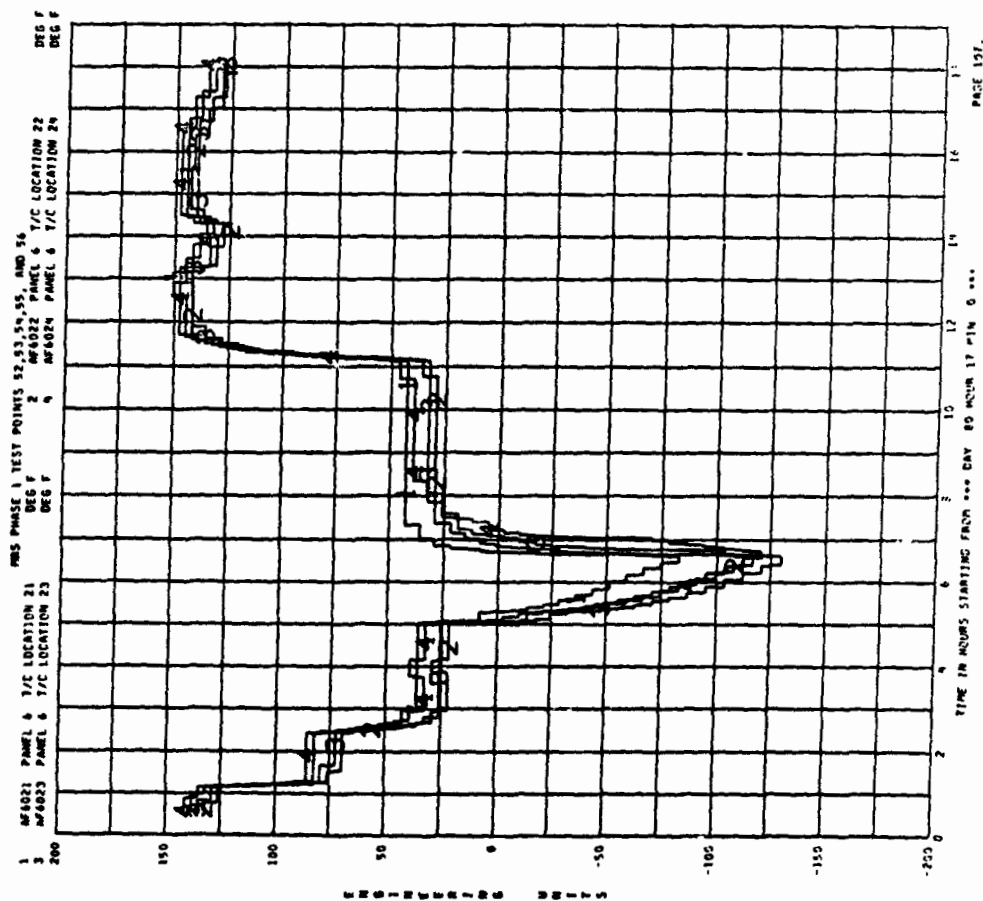


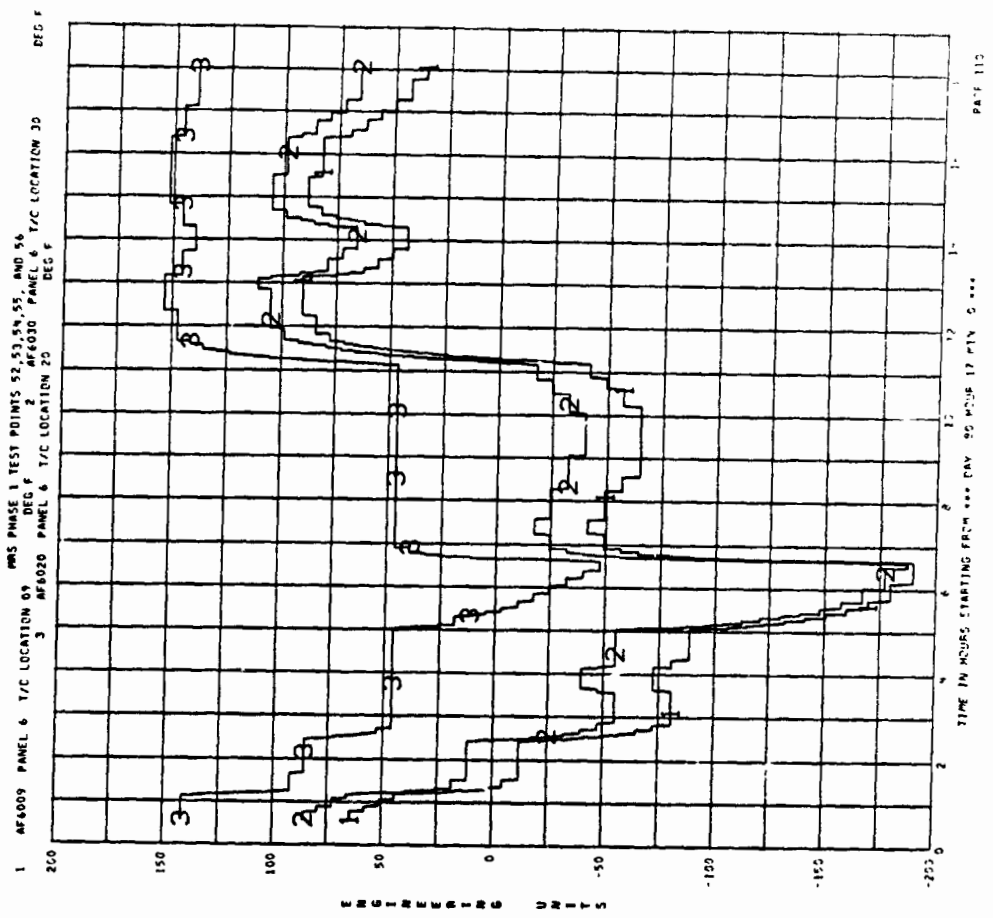
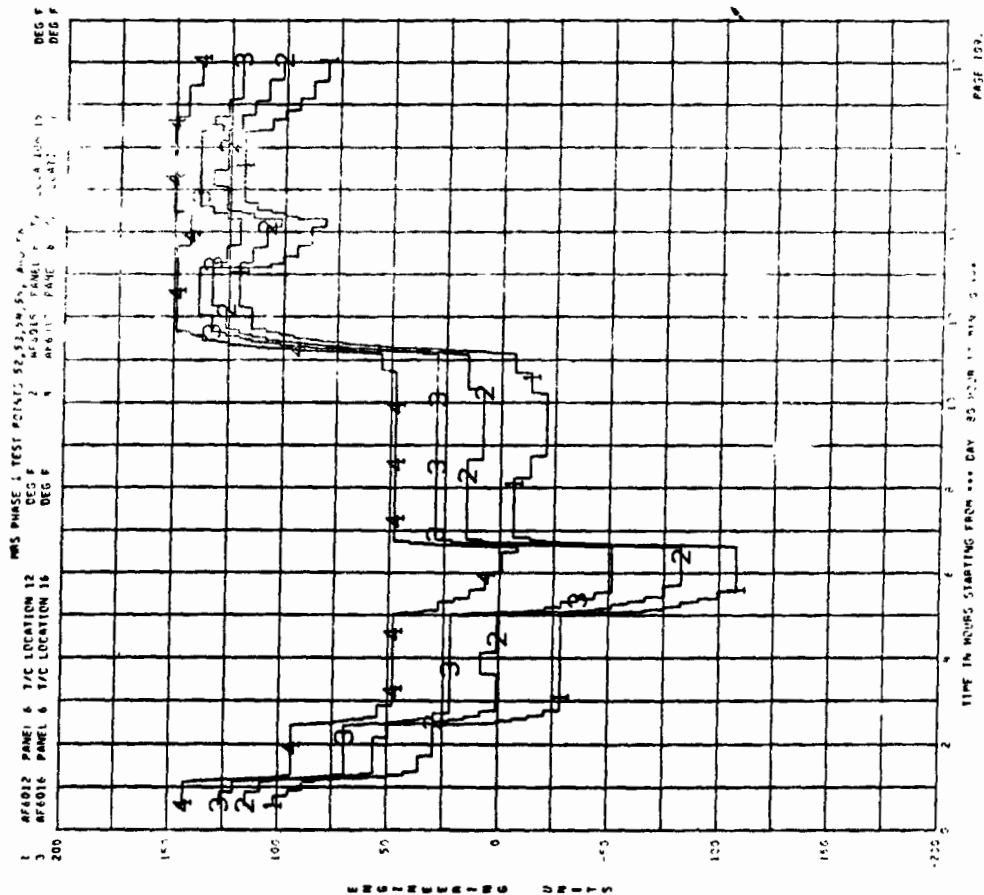




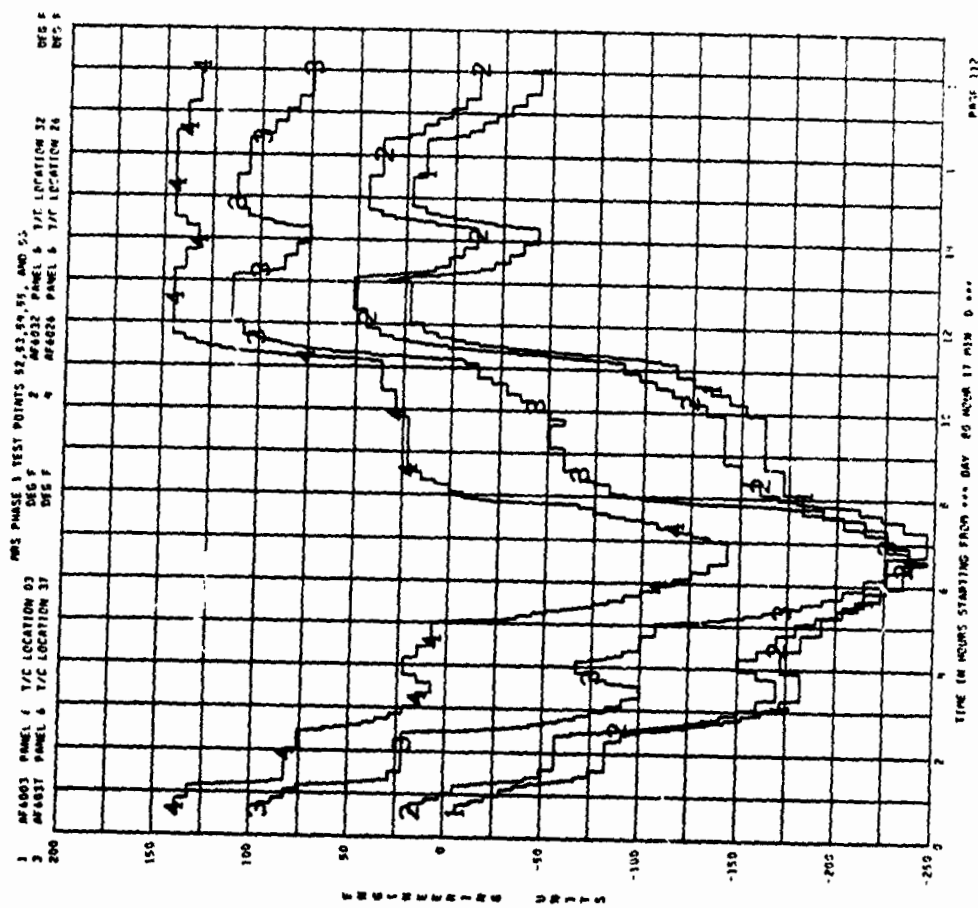
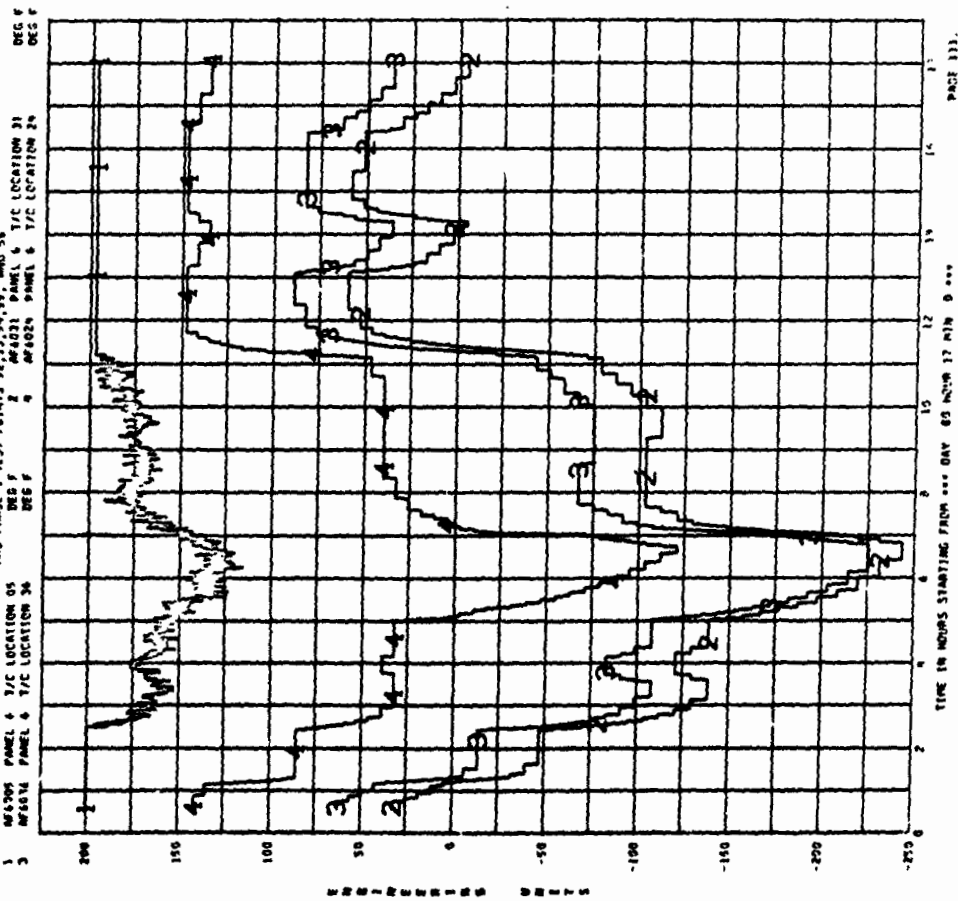


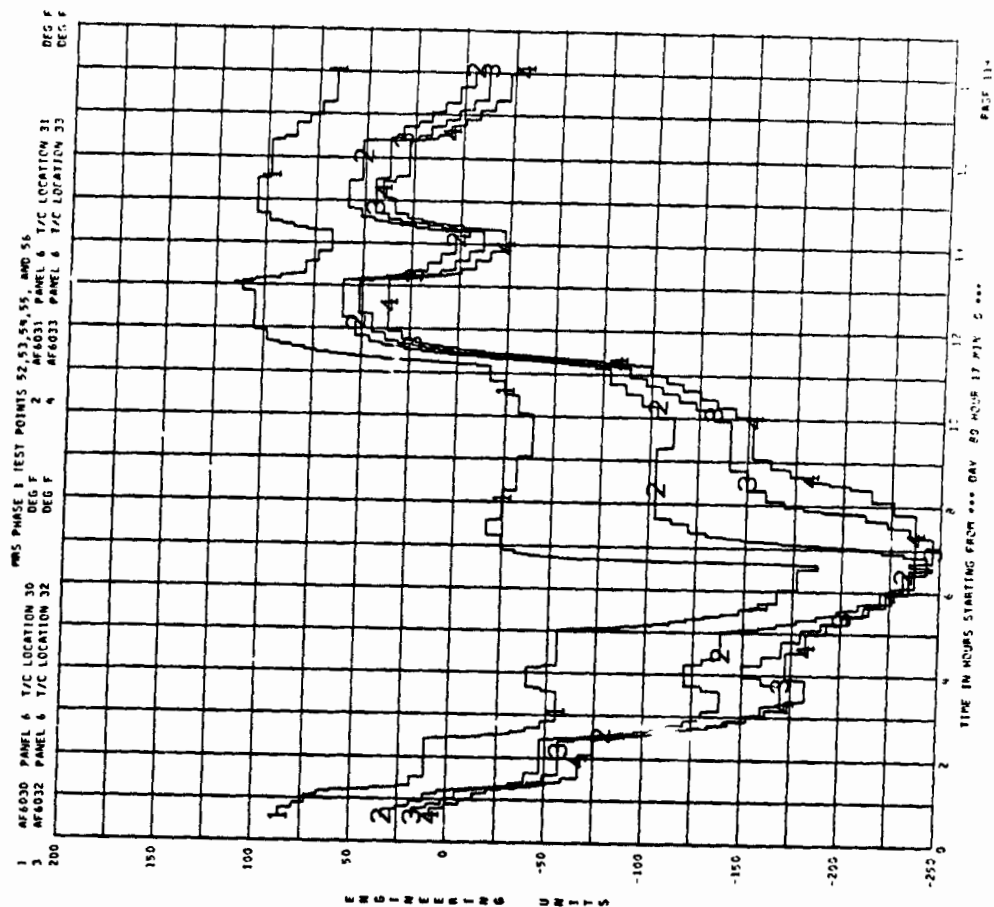
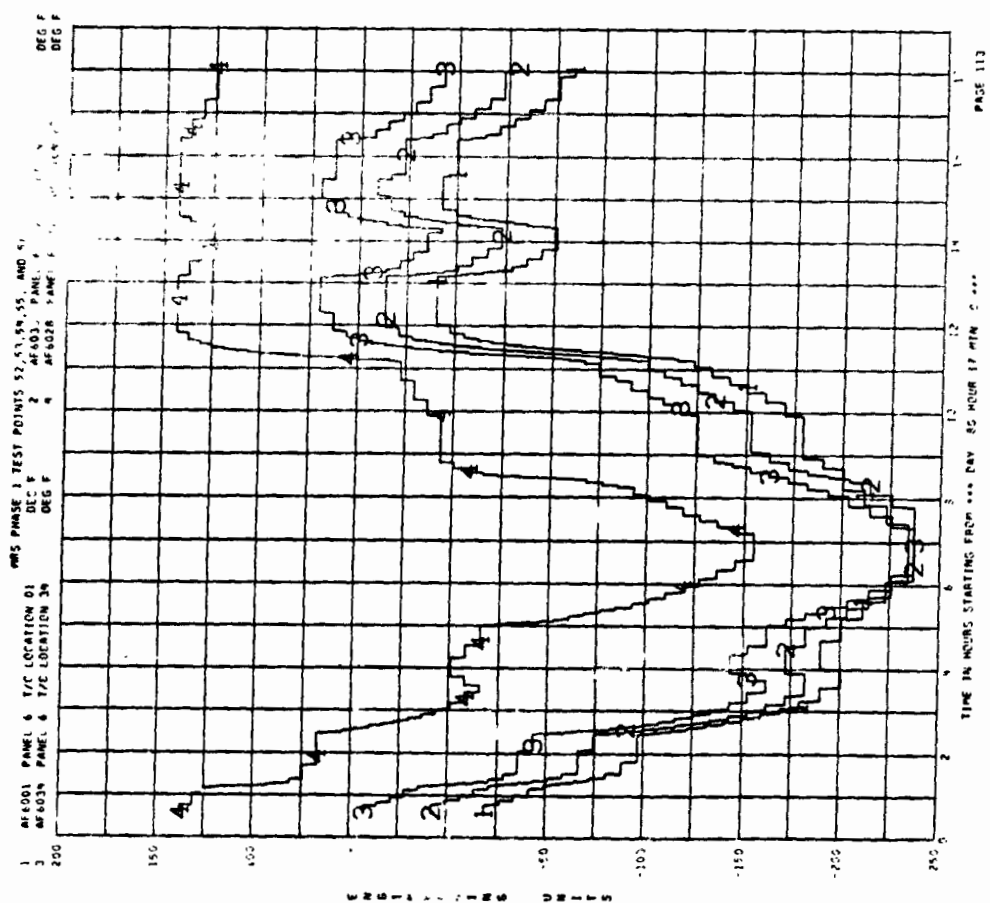


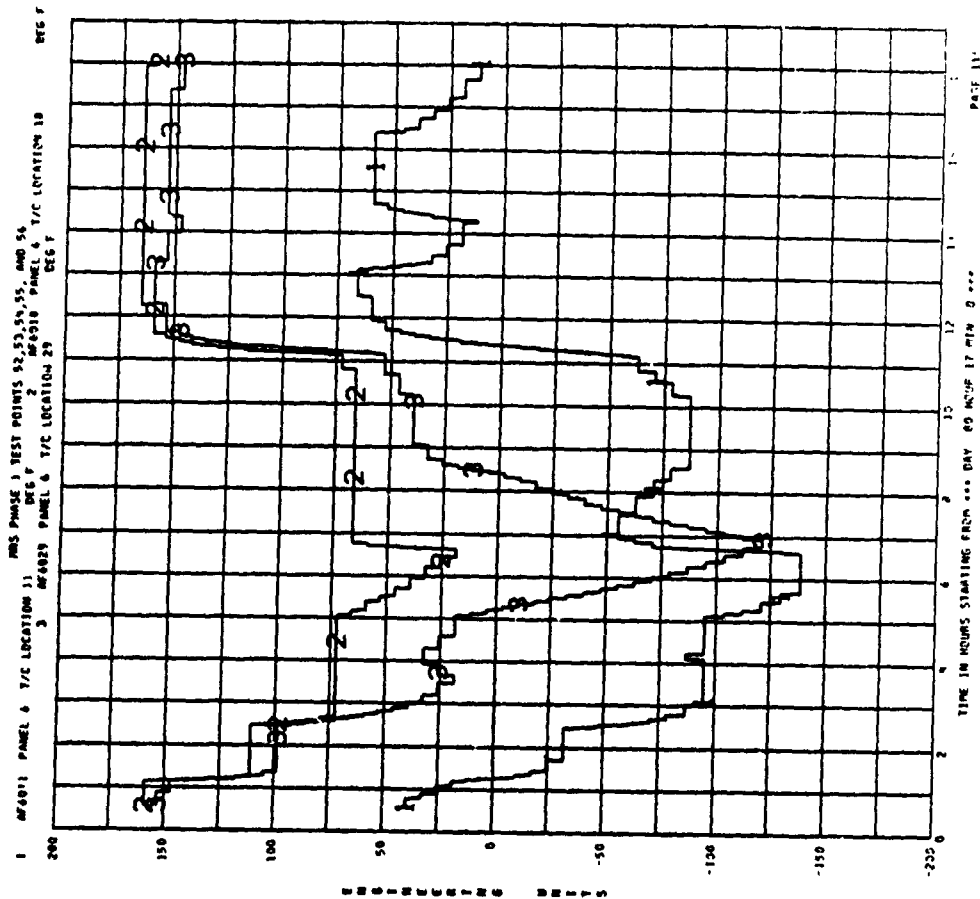
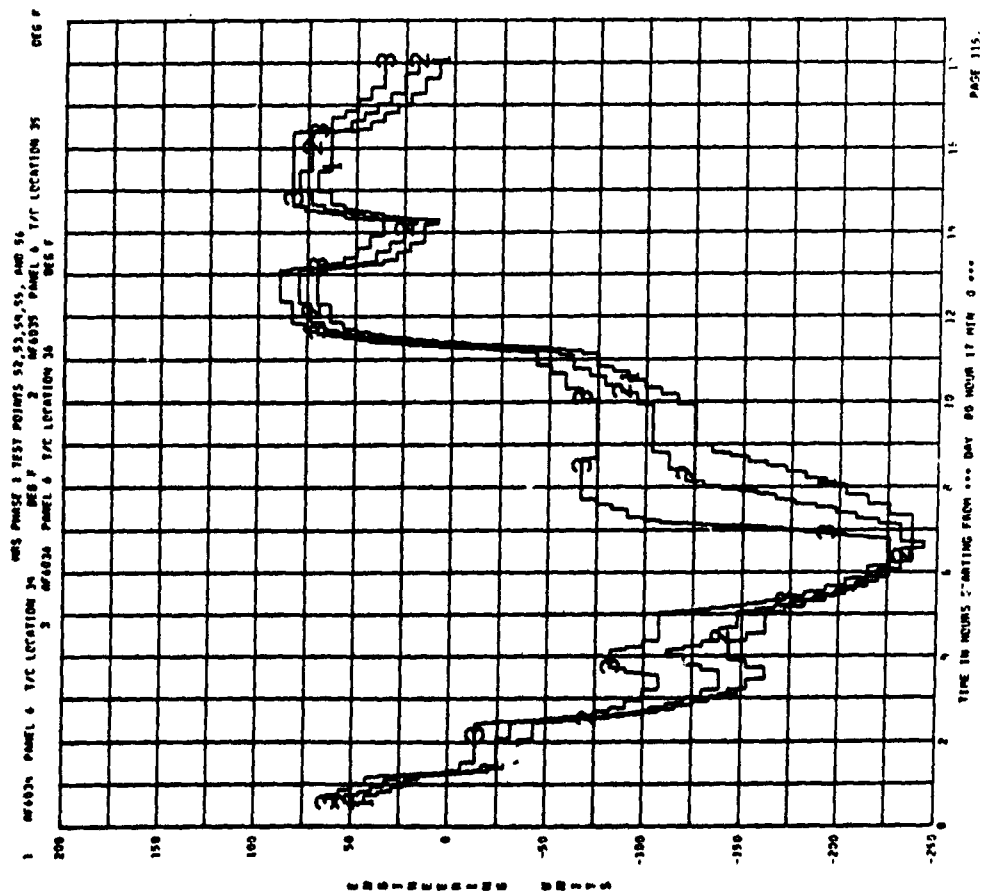


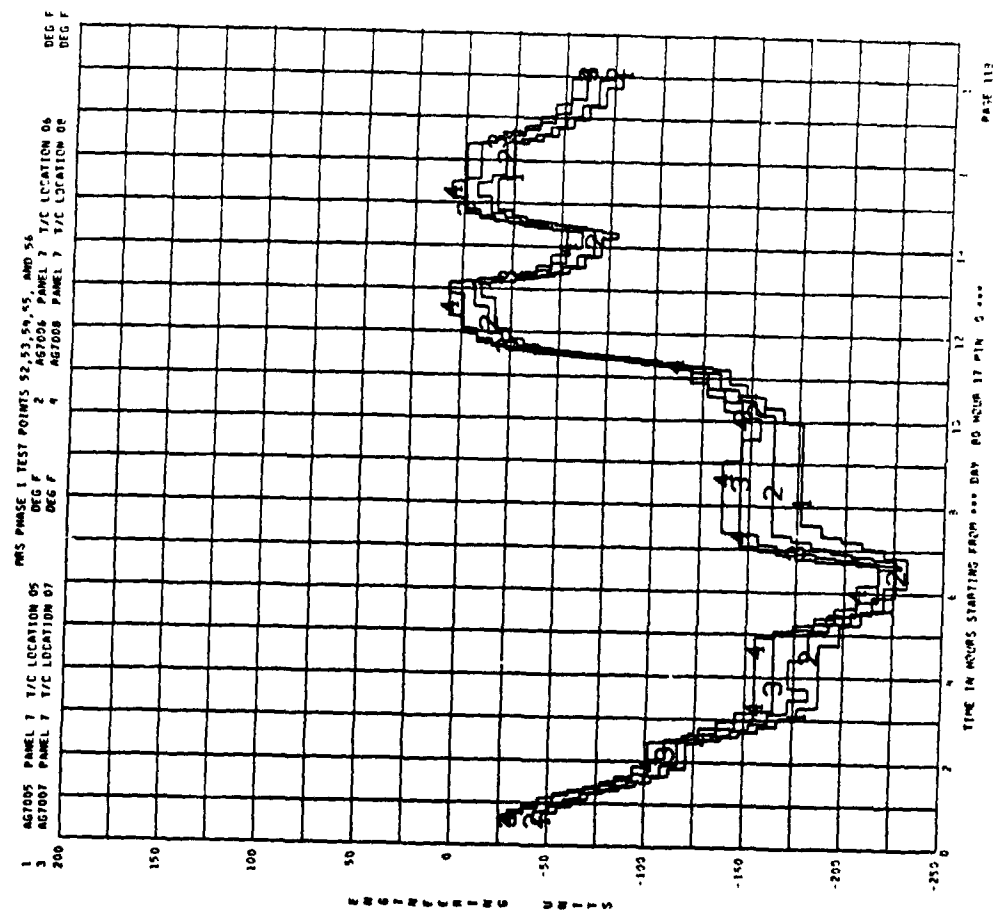
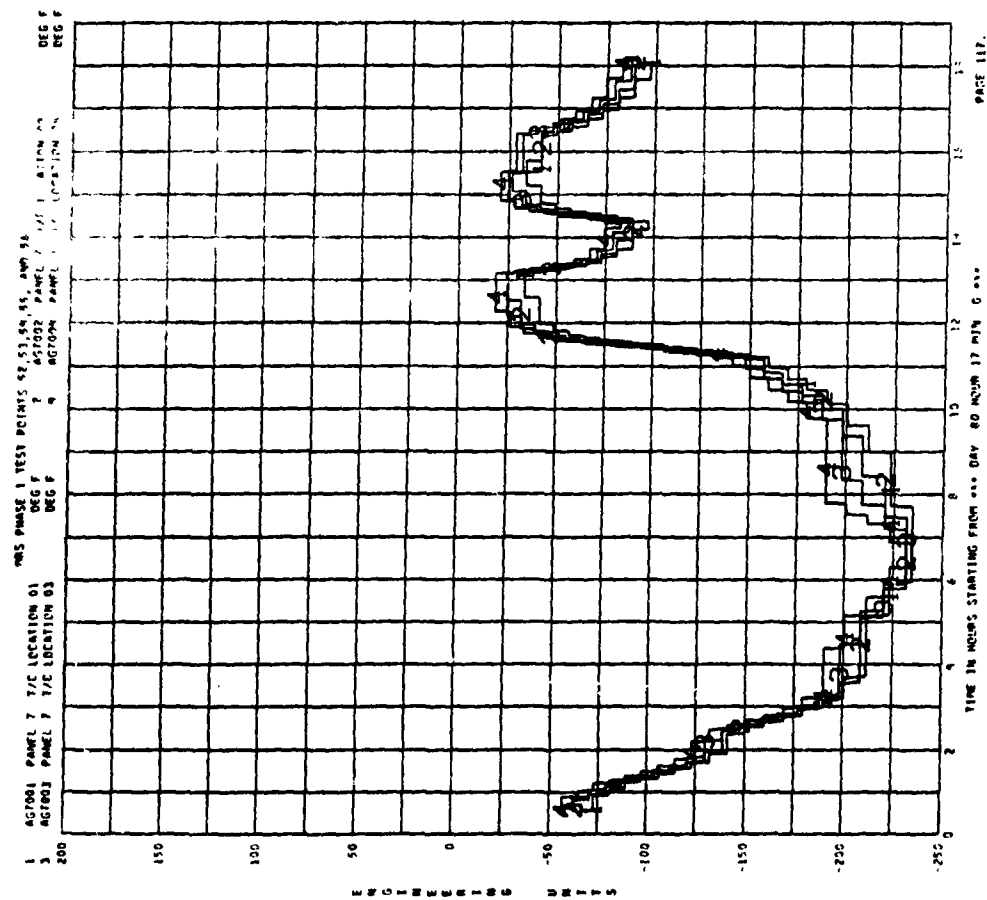


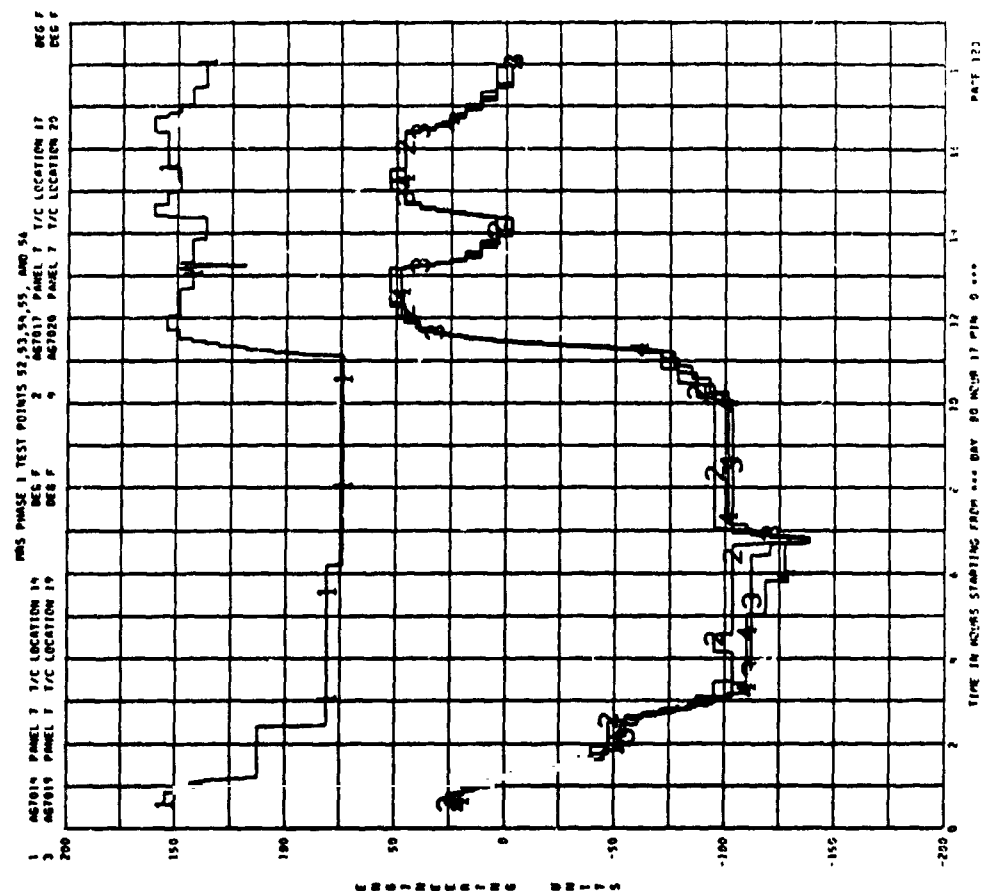
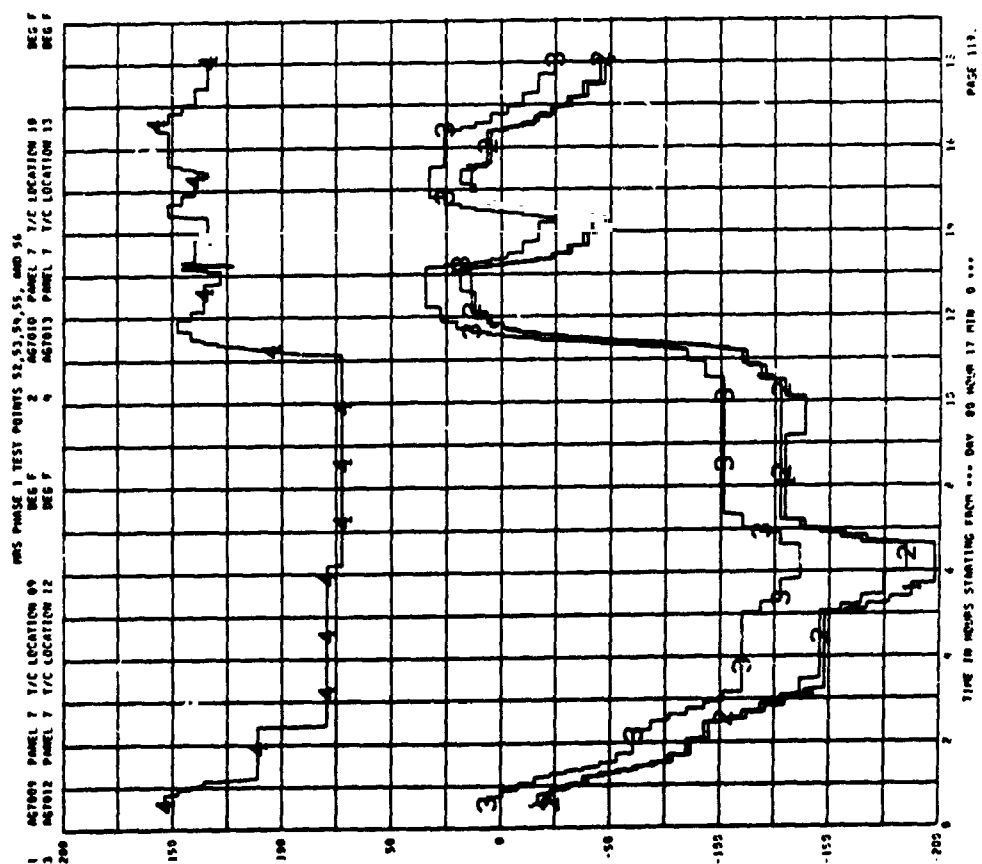


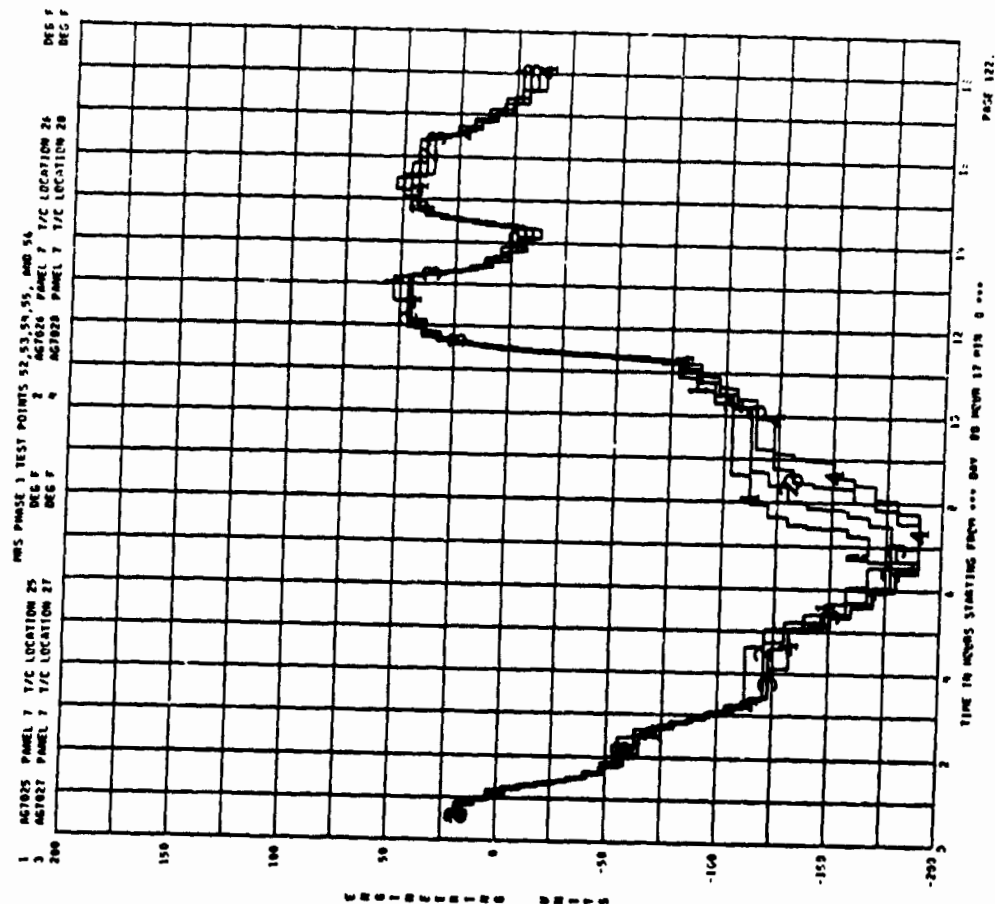
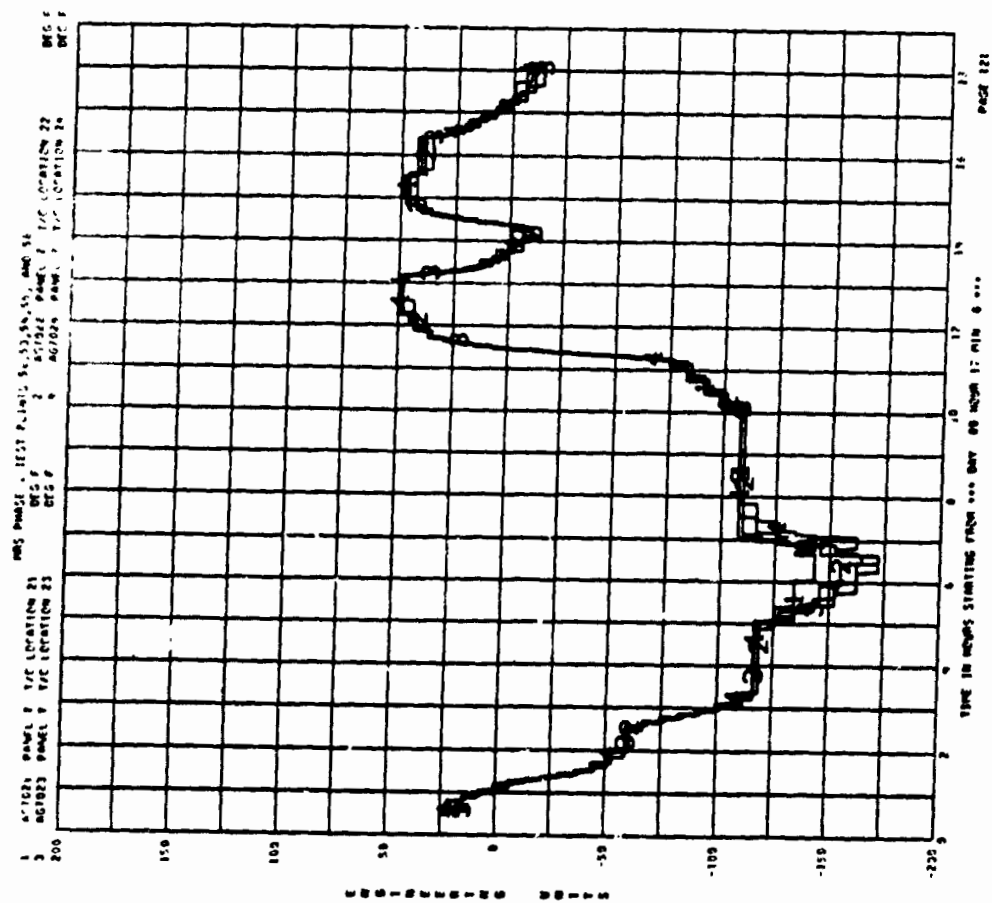


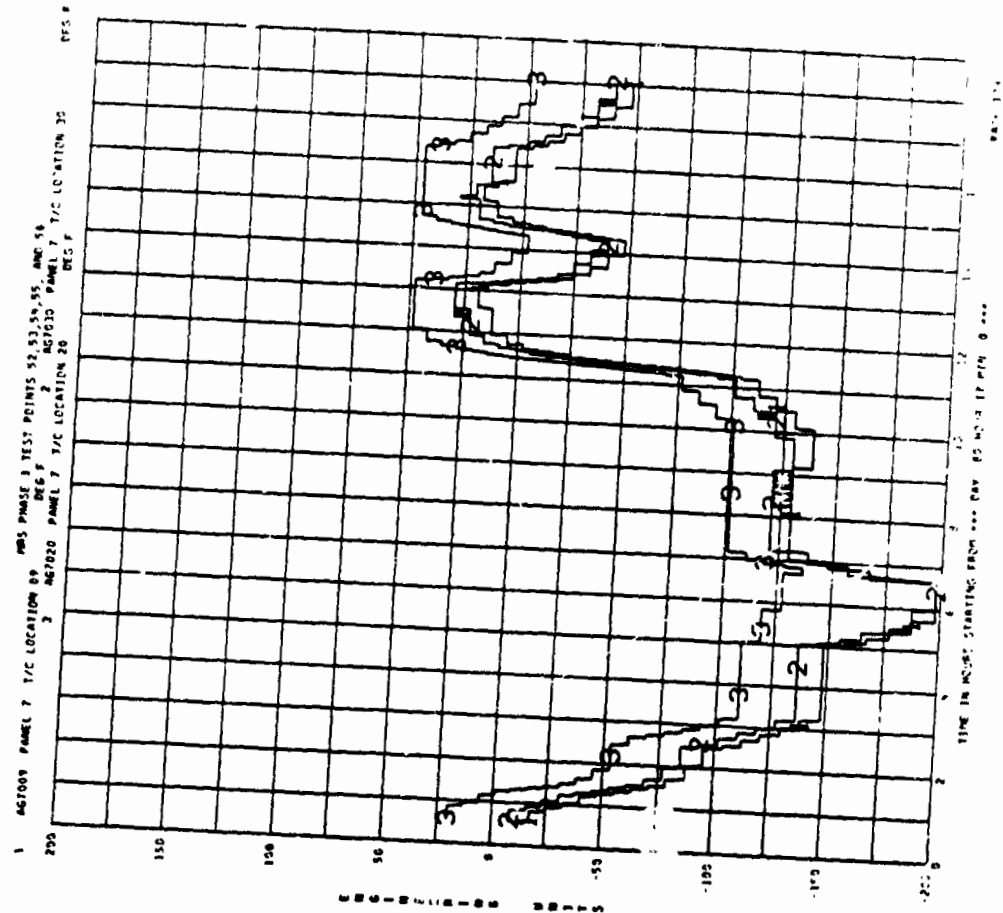
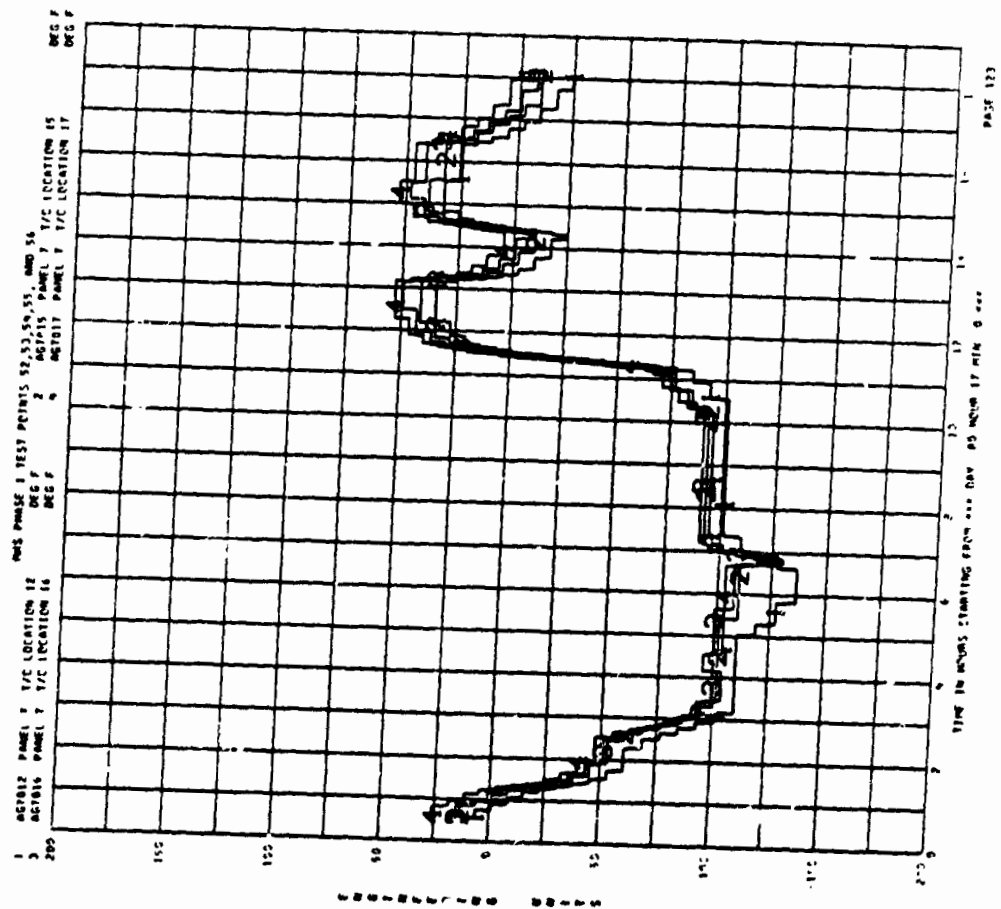






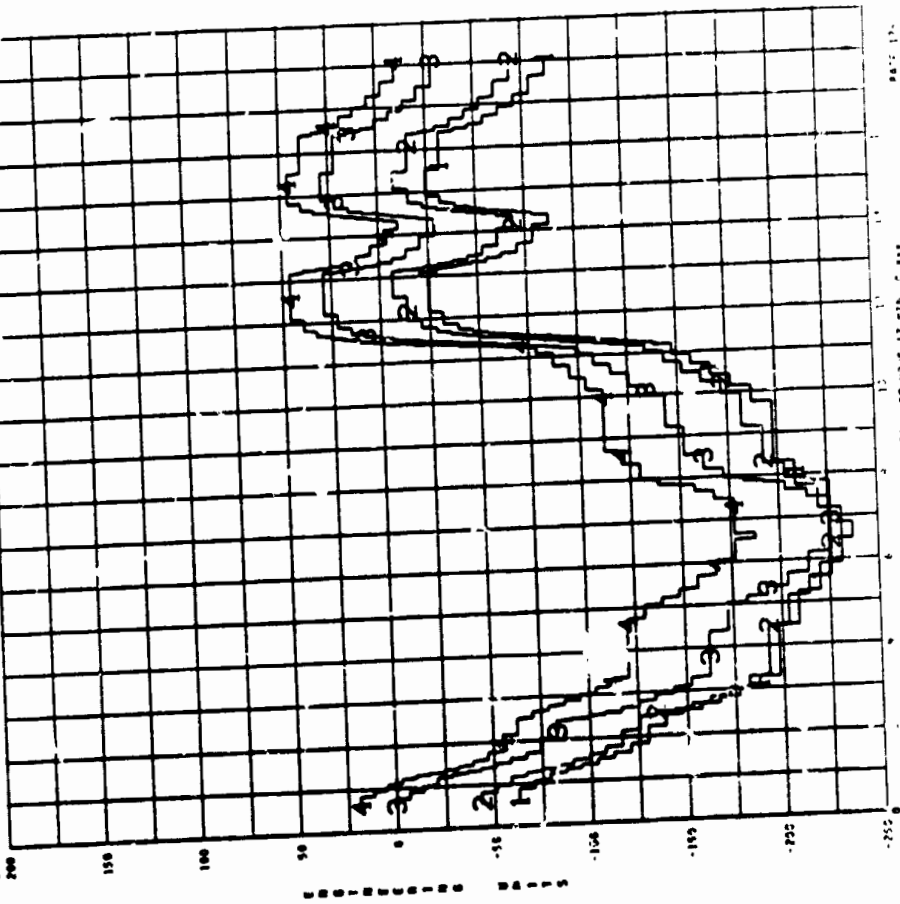






WMS PHASE 1 TEST POINTS 52, 53, 54, 55, AND 56

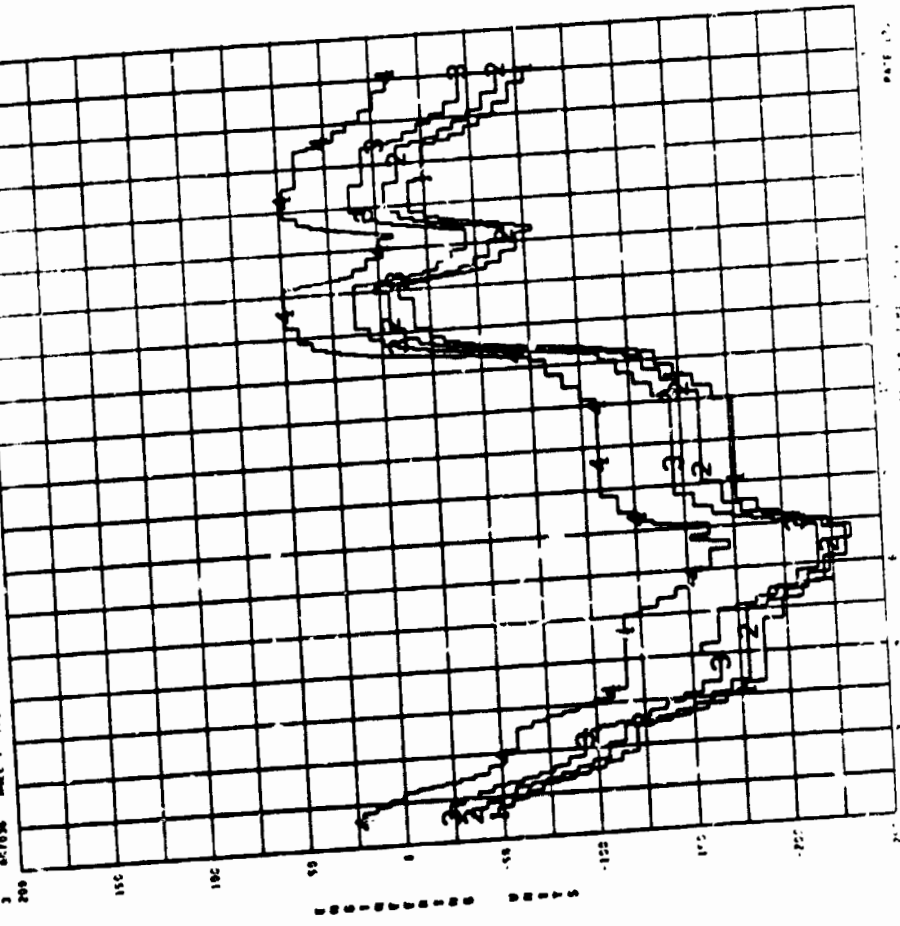
1. ACT003 PANEL 7 T/C LOCATION 83  
 2. ACT032 PANEL 7 T/C LOCATION 32  
 3. ACT037 PANEL 7 T/C LOCATION 37



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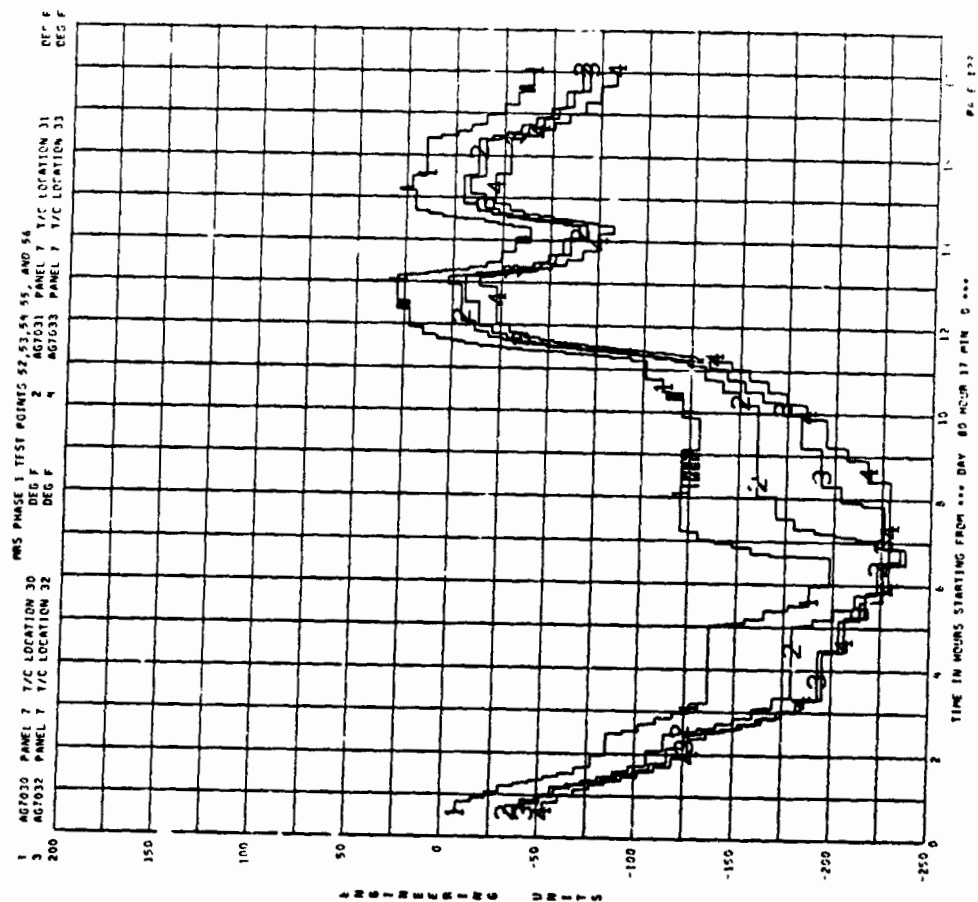
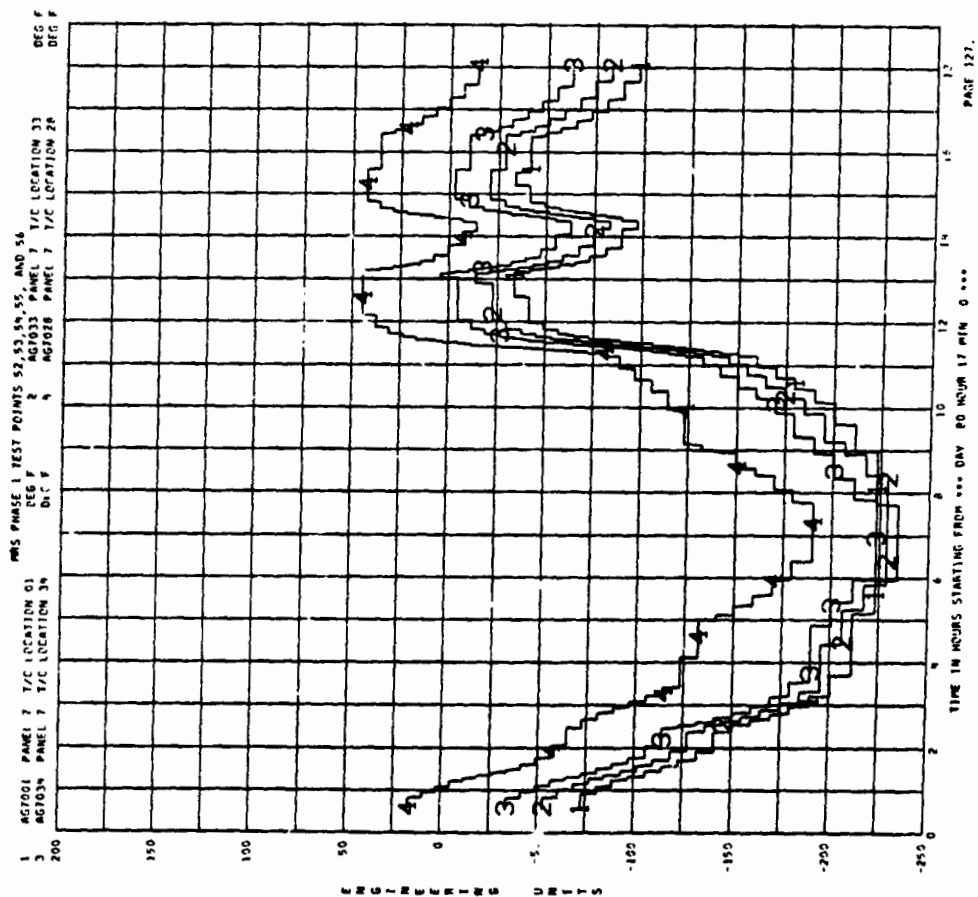
WMS PHASE 1 TEST POINTS 52, 53, 54, 55, AND 56

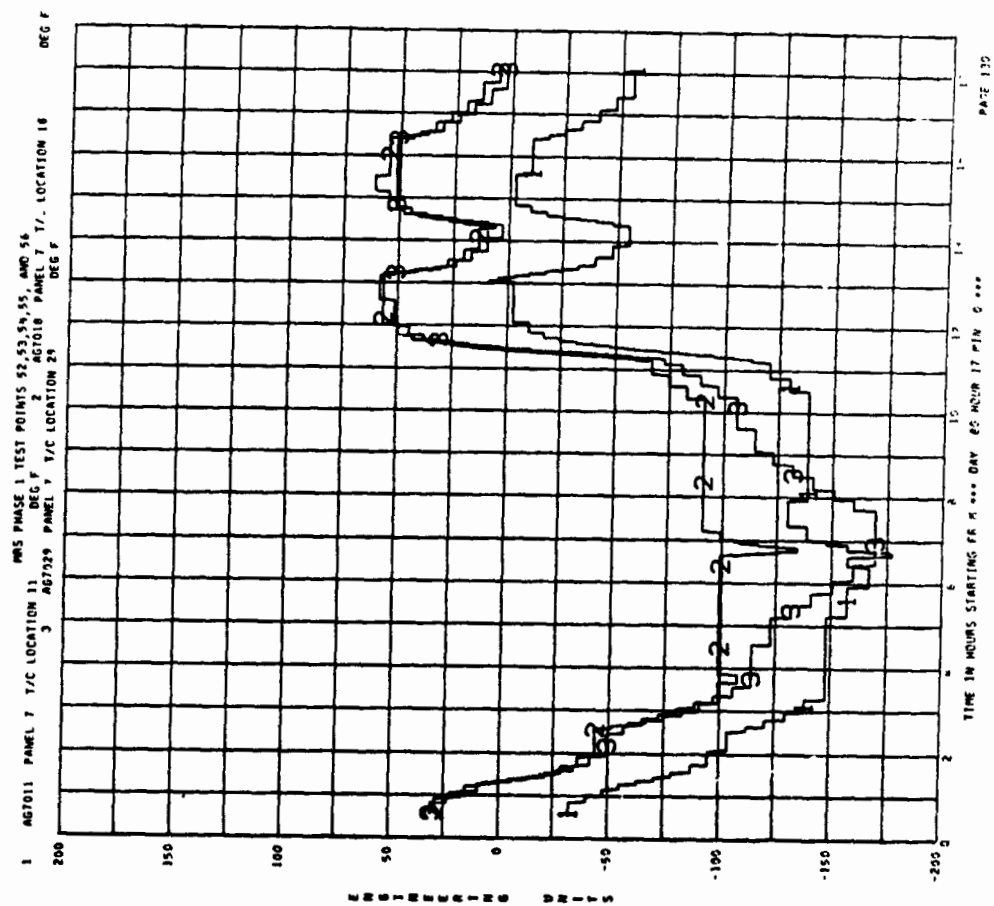
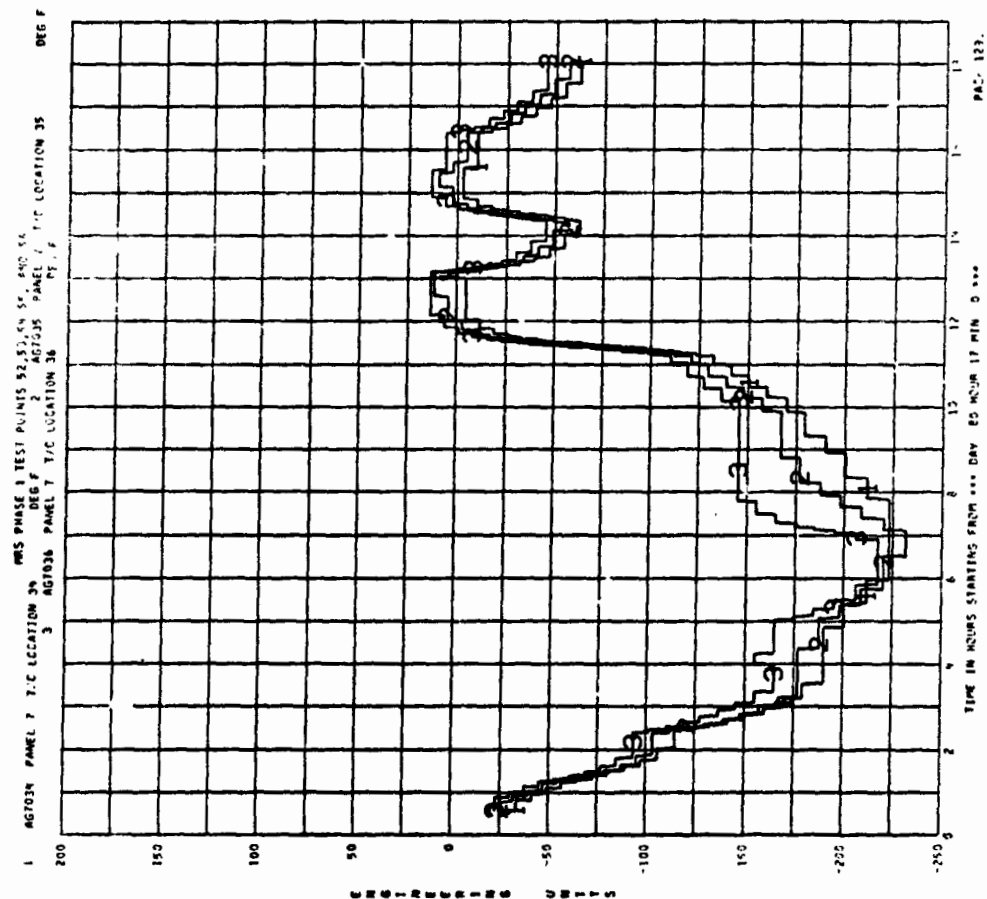
1. ACT003 PANEL 7 T/C LOCATION 83  
 2. ACT032 PANEL 7 T/C LOCATION 32  
 3. ACT037 PANEL 7 T/C LOCATION 37

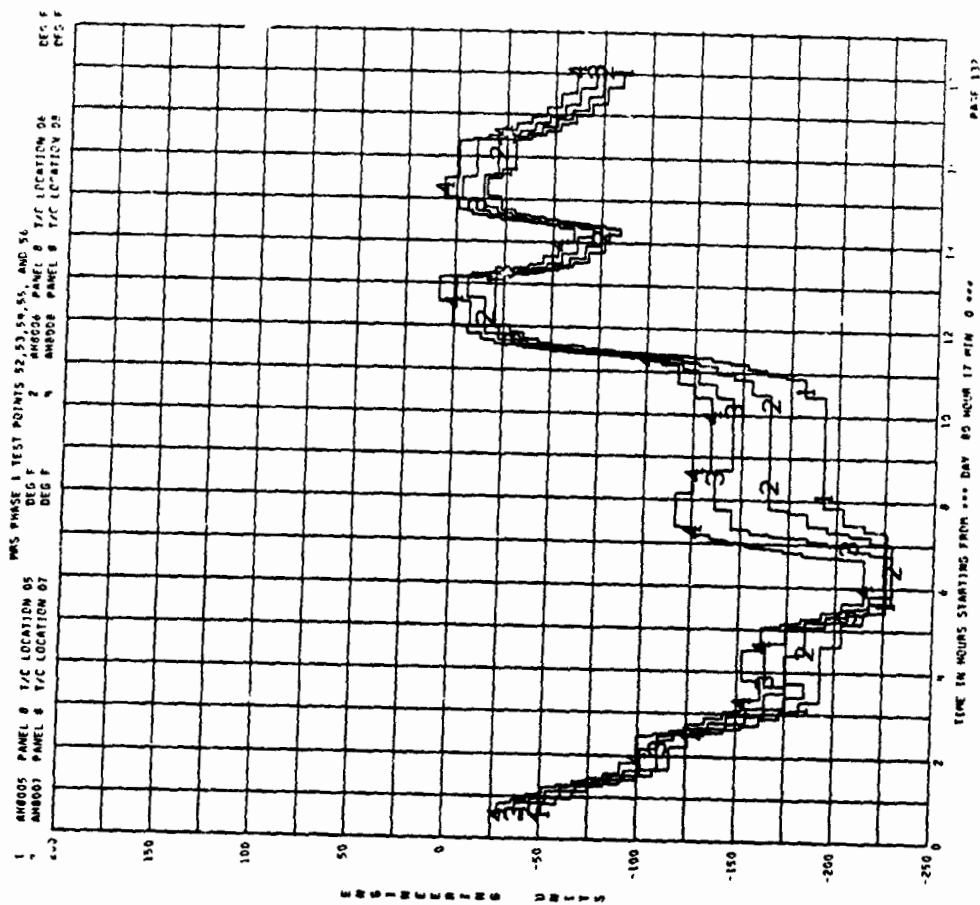
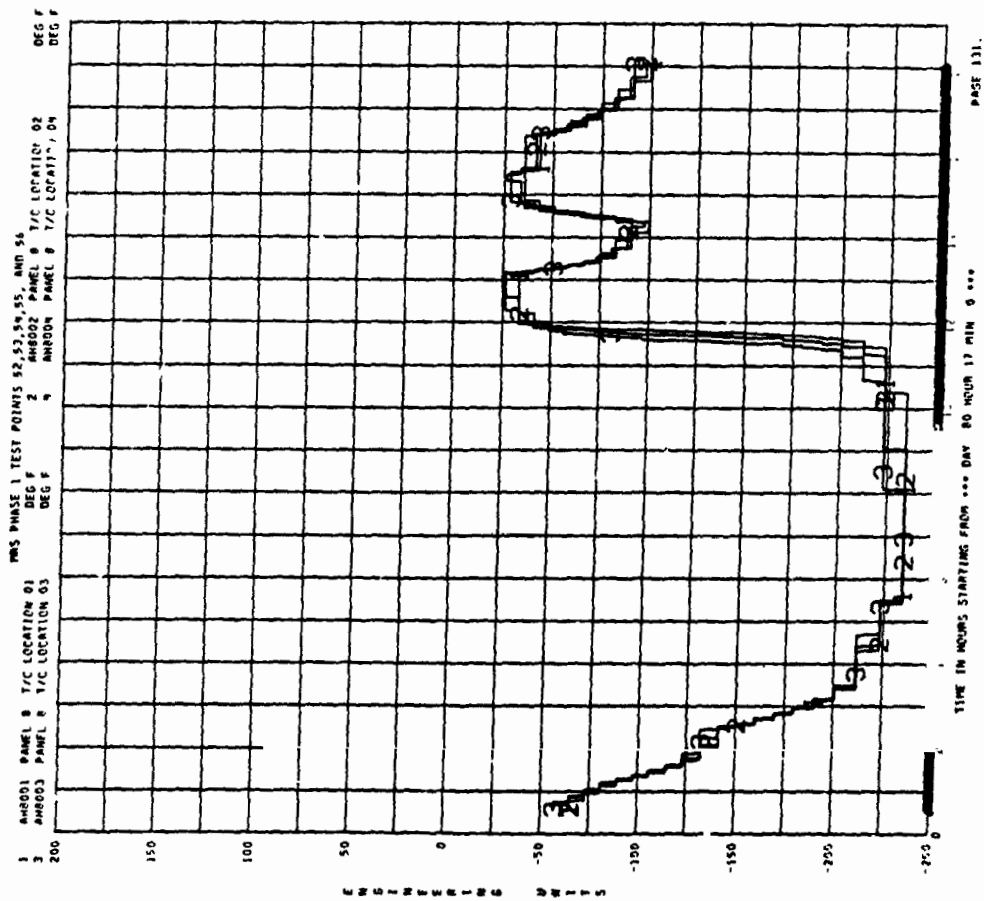


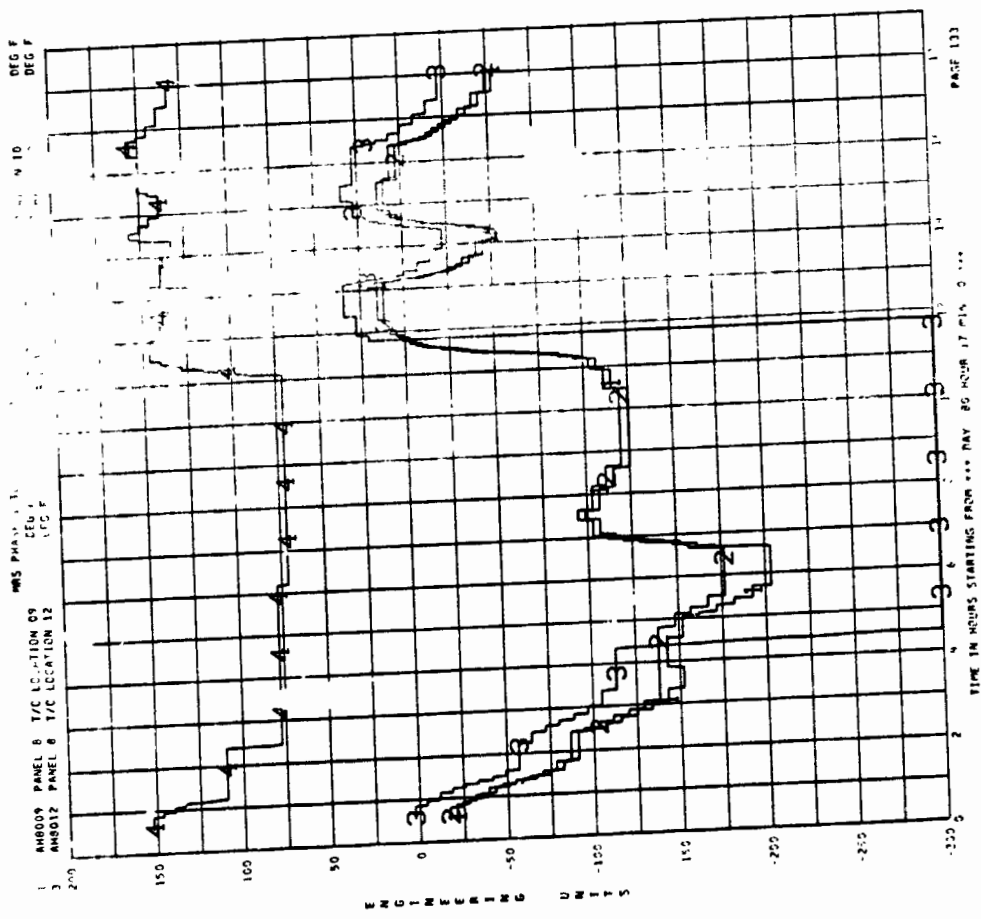
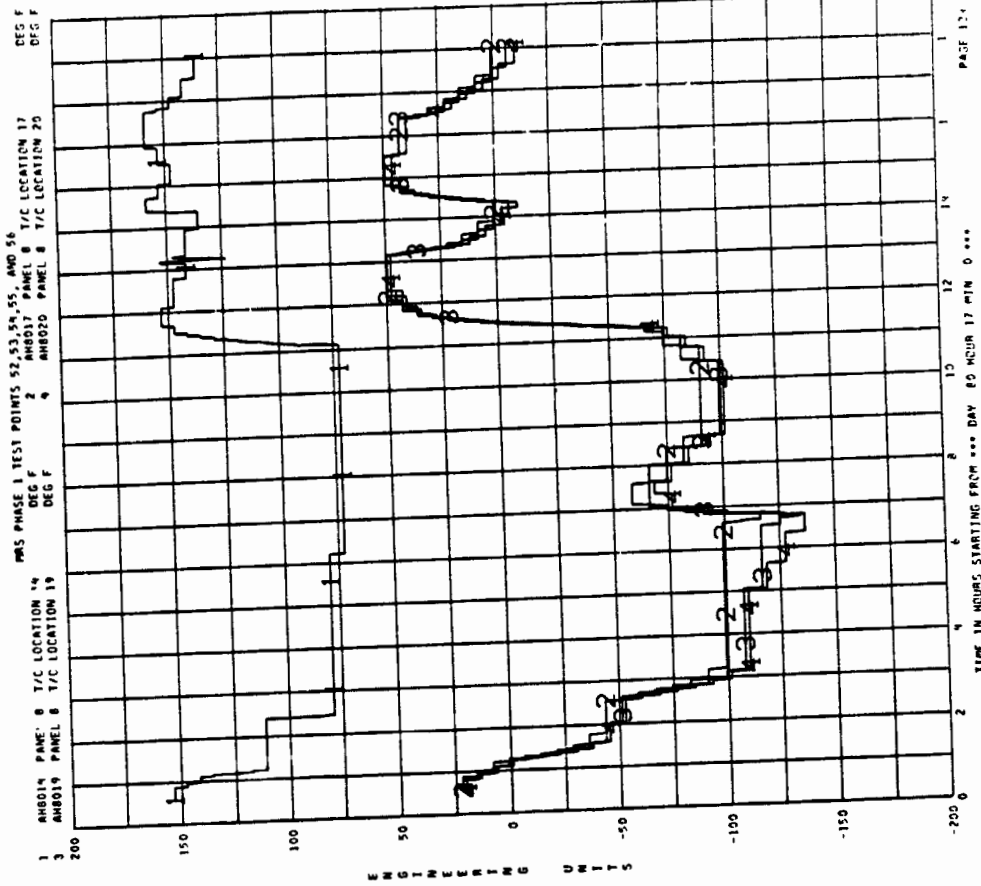
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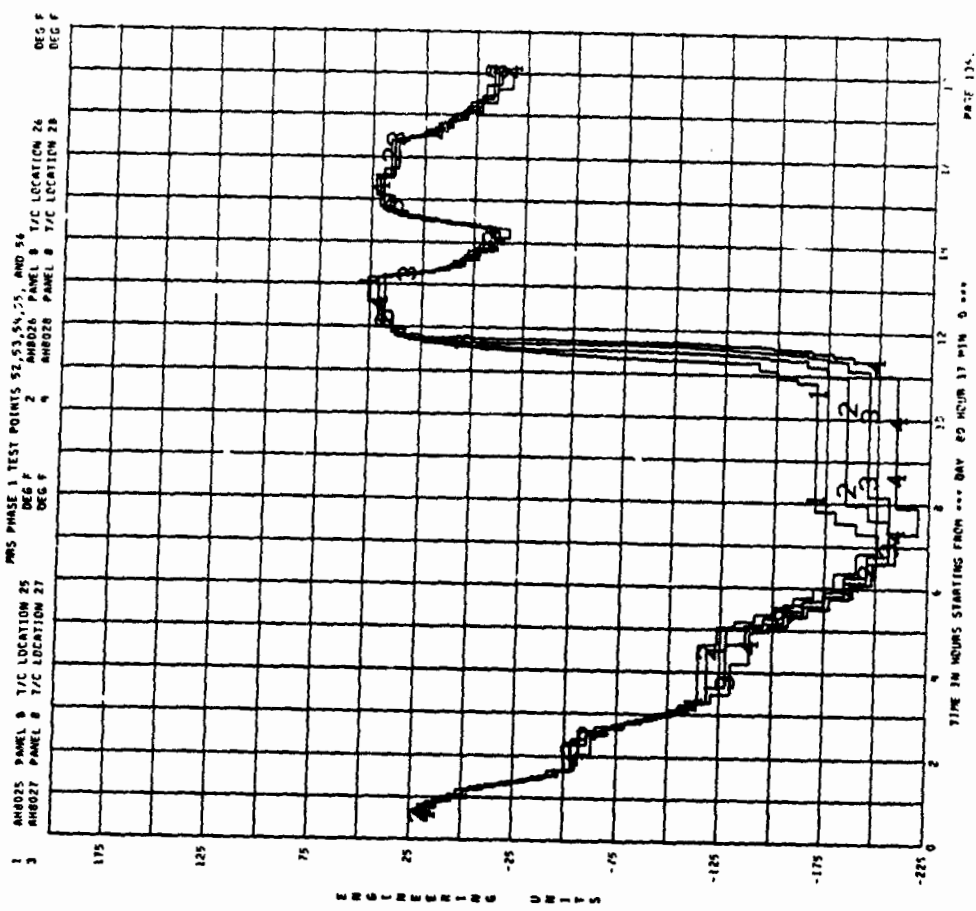
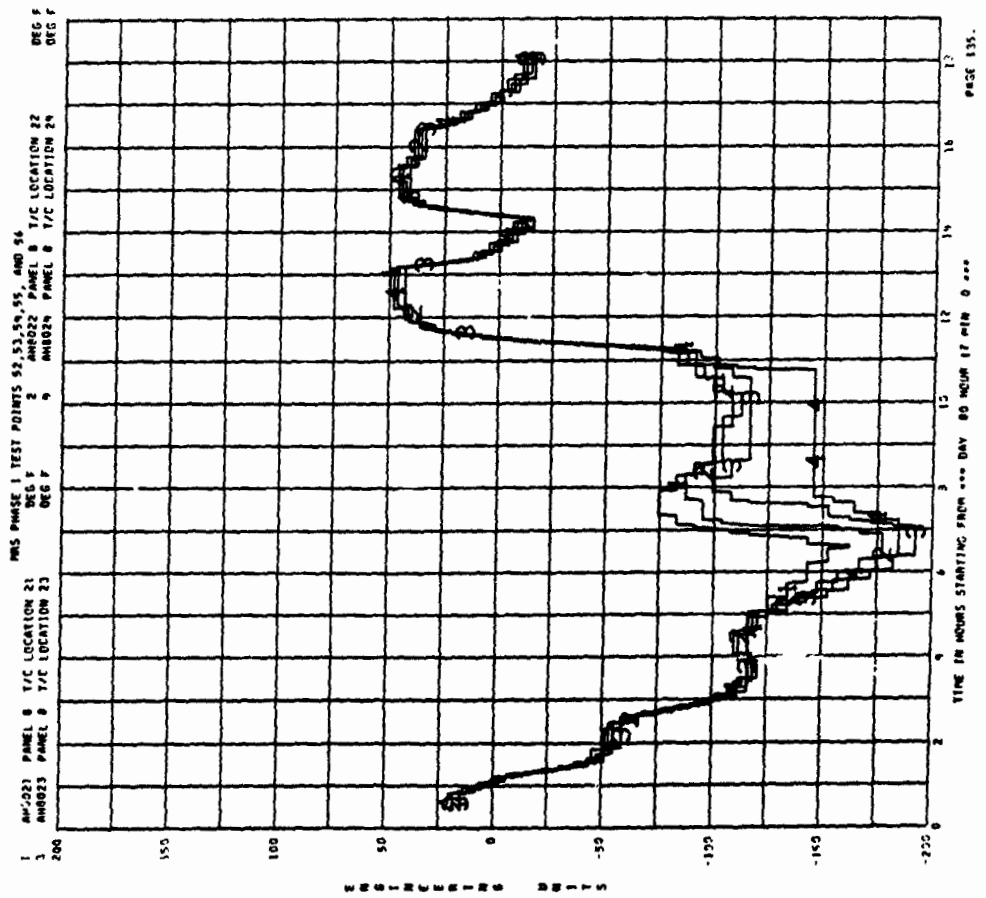


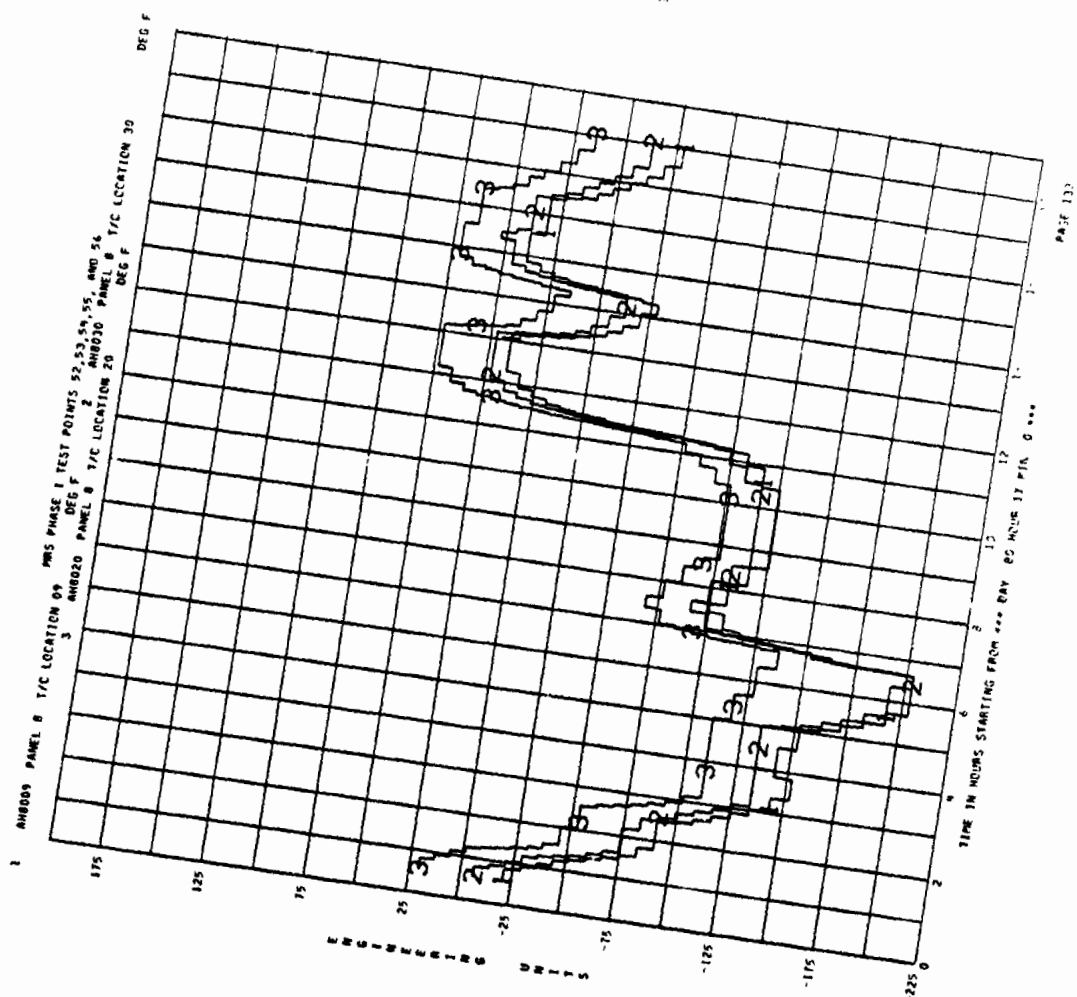
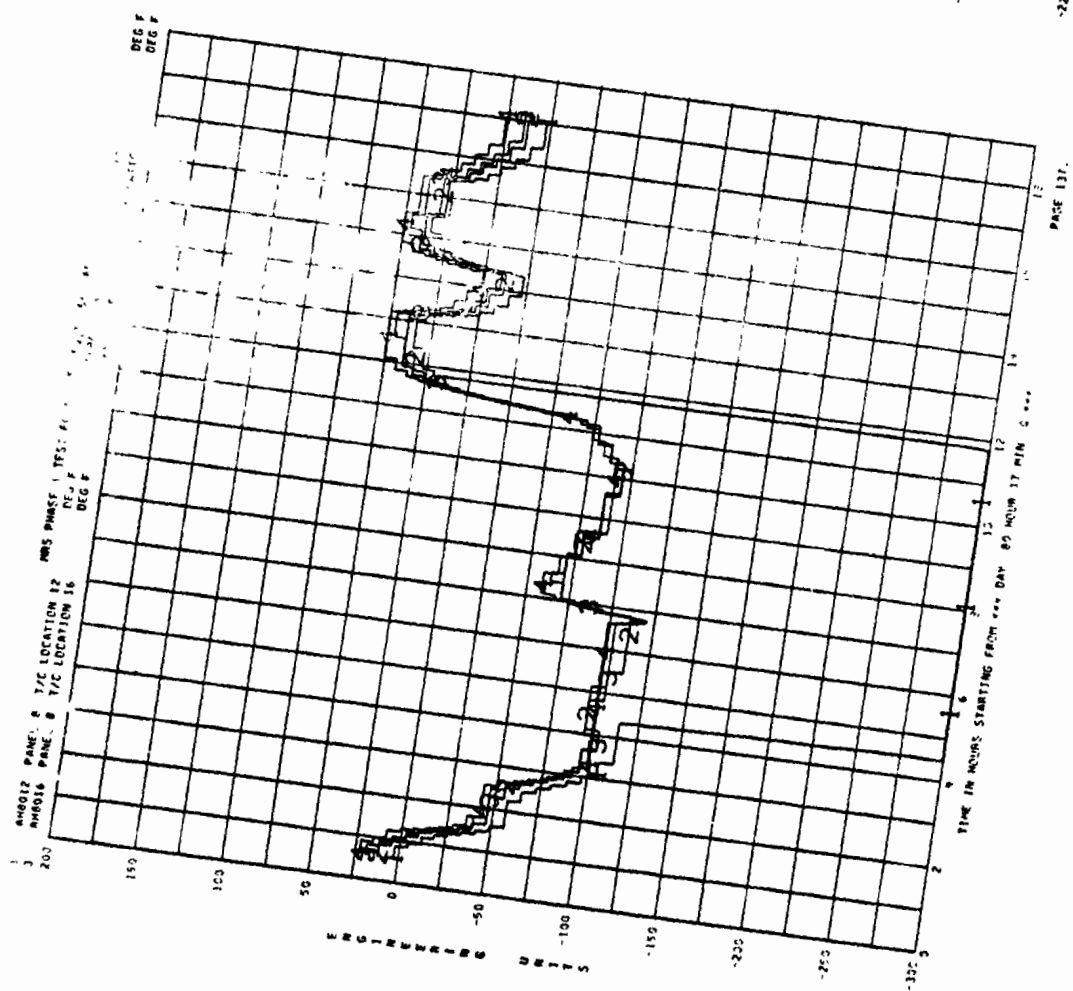


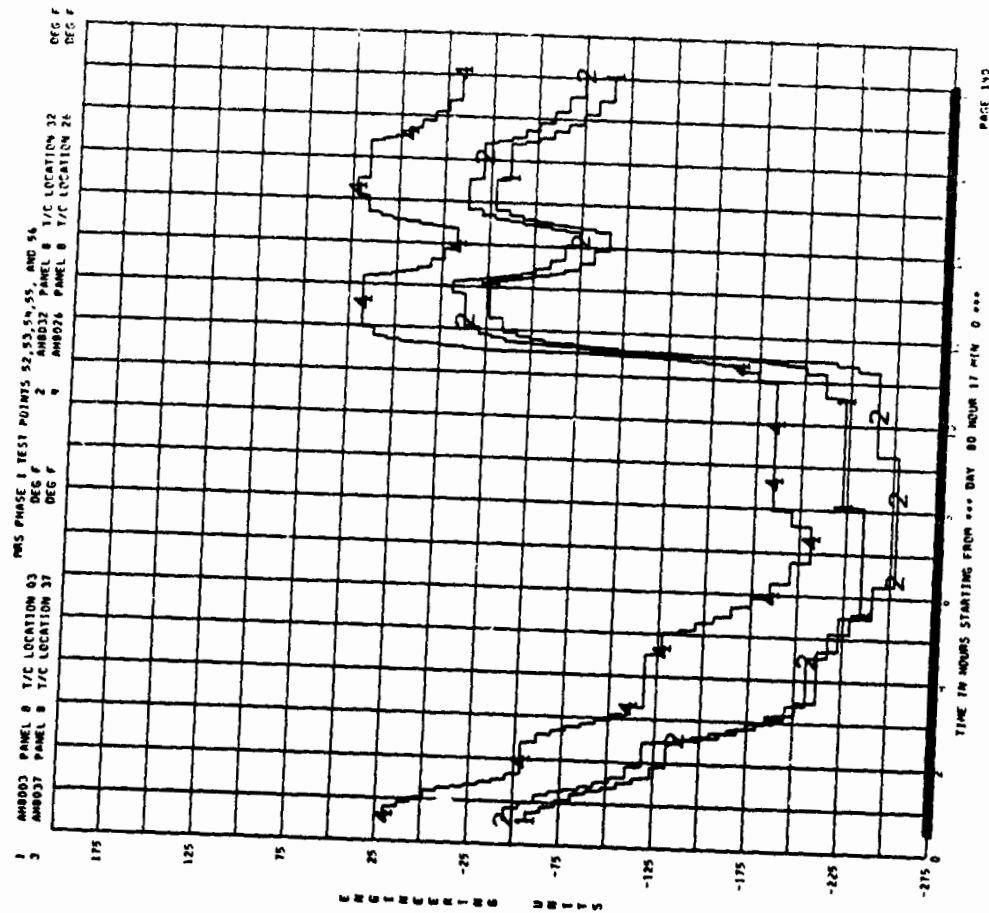
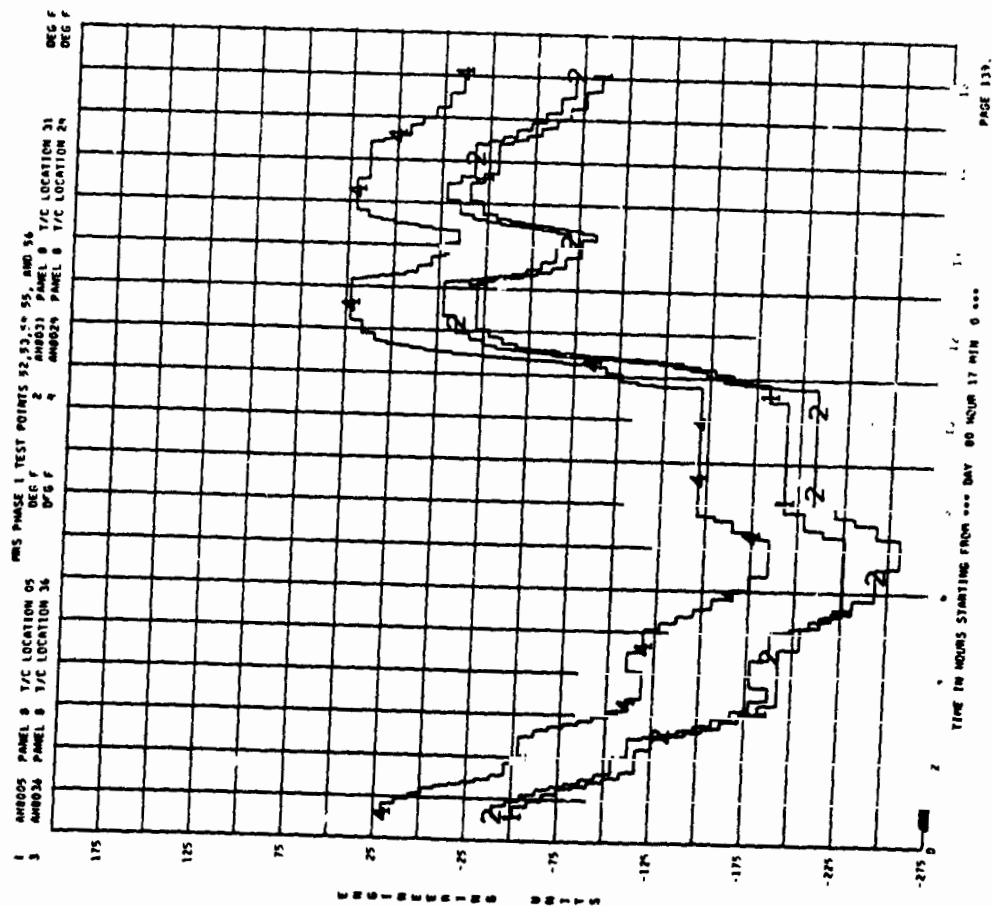


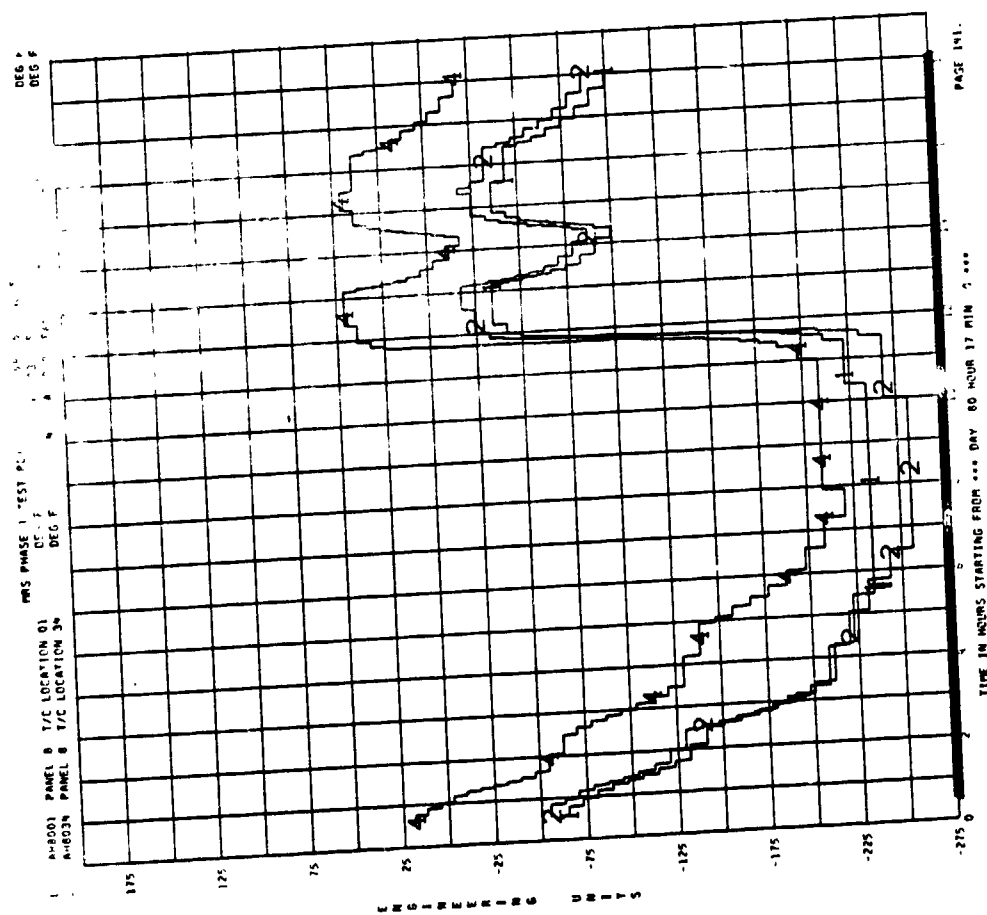
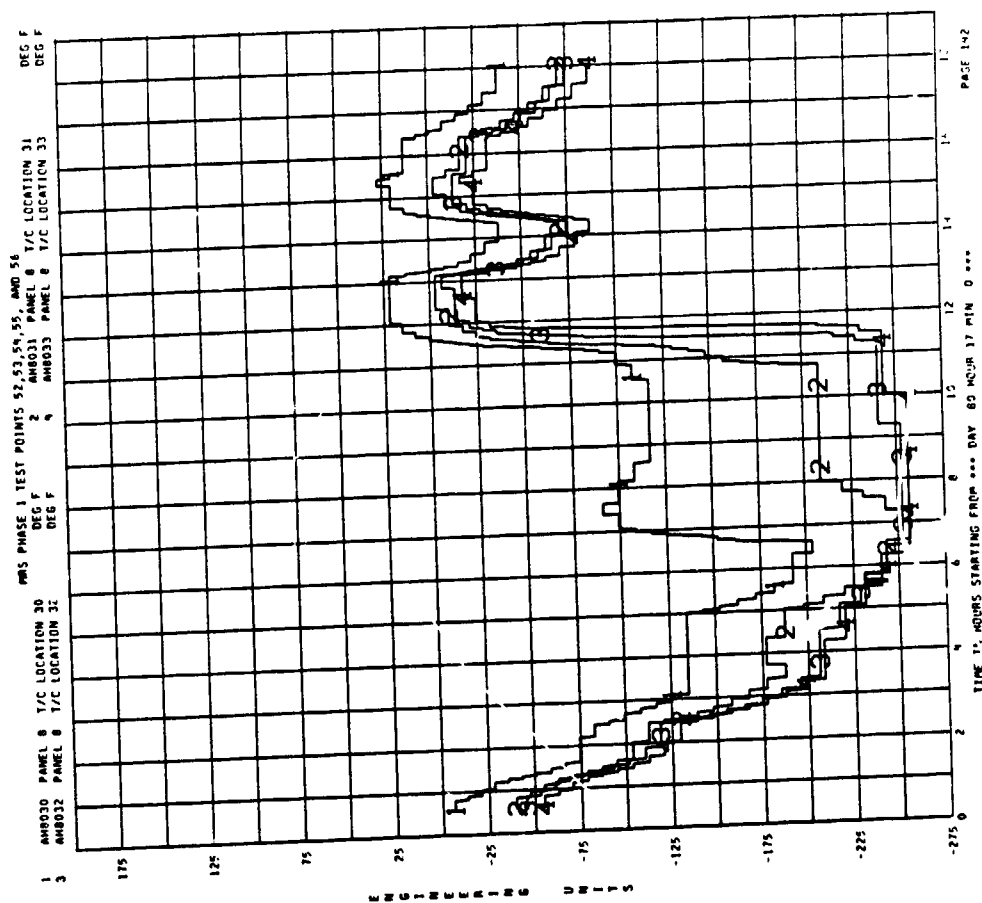




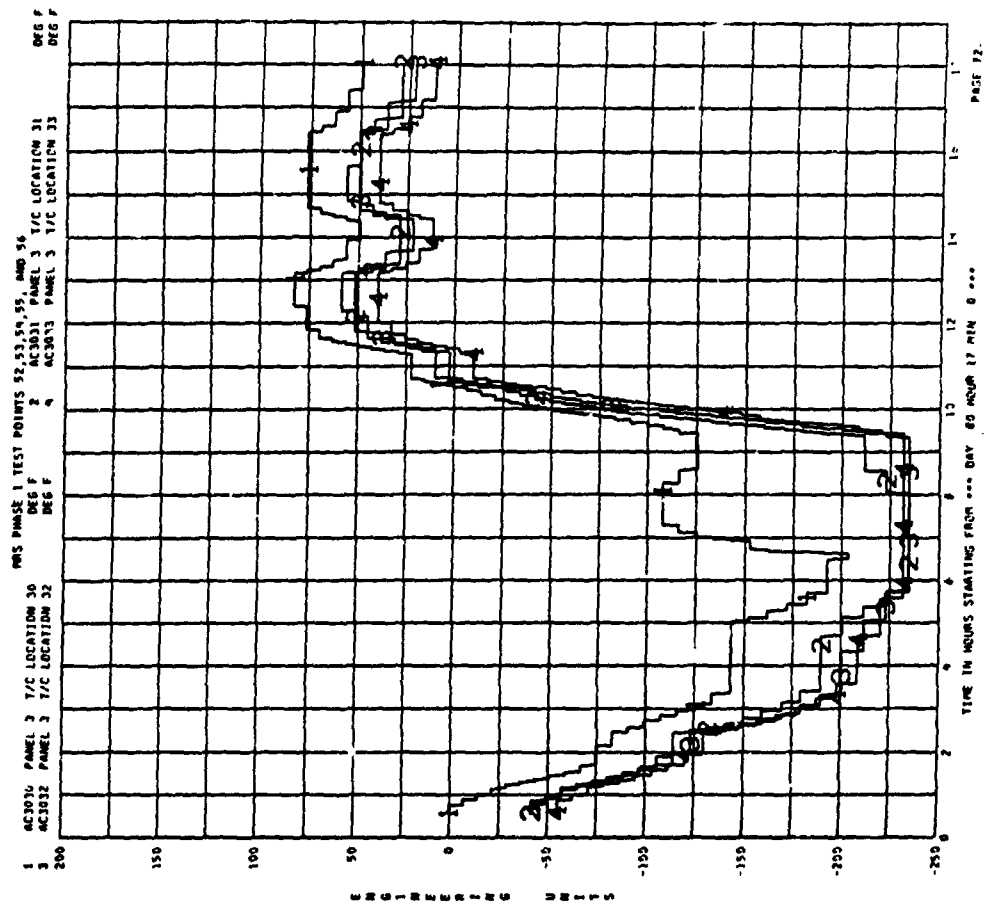
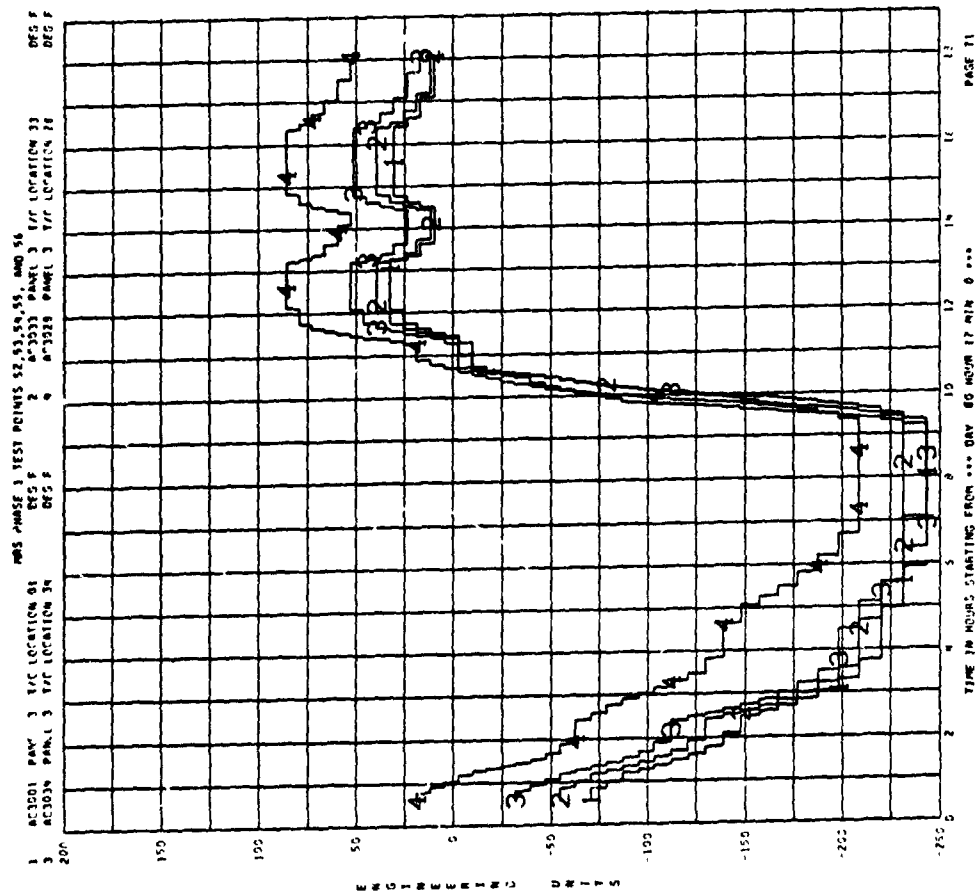










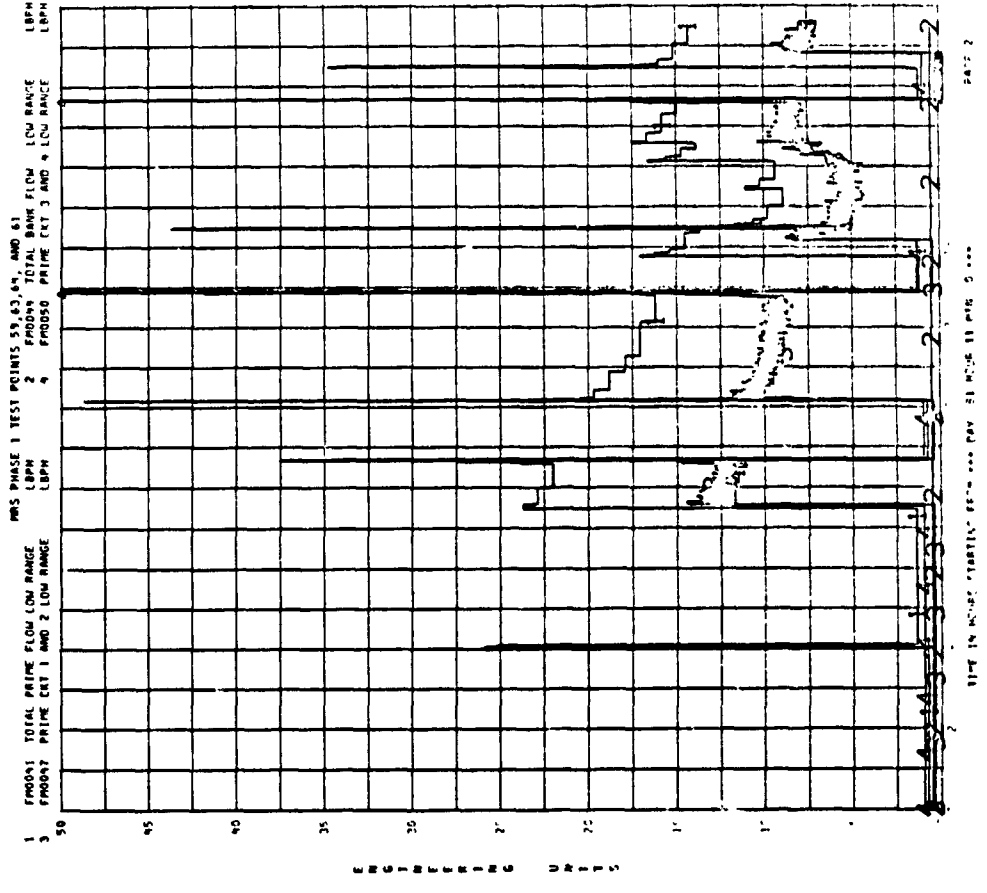
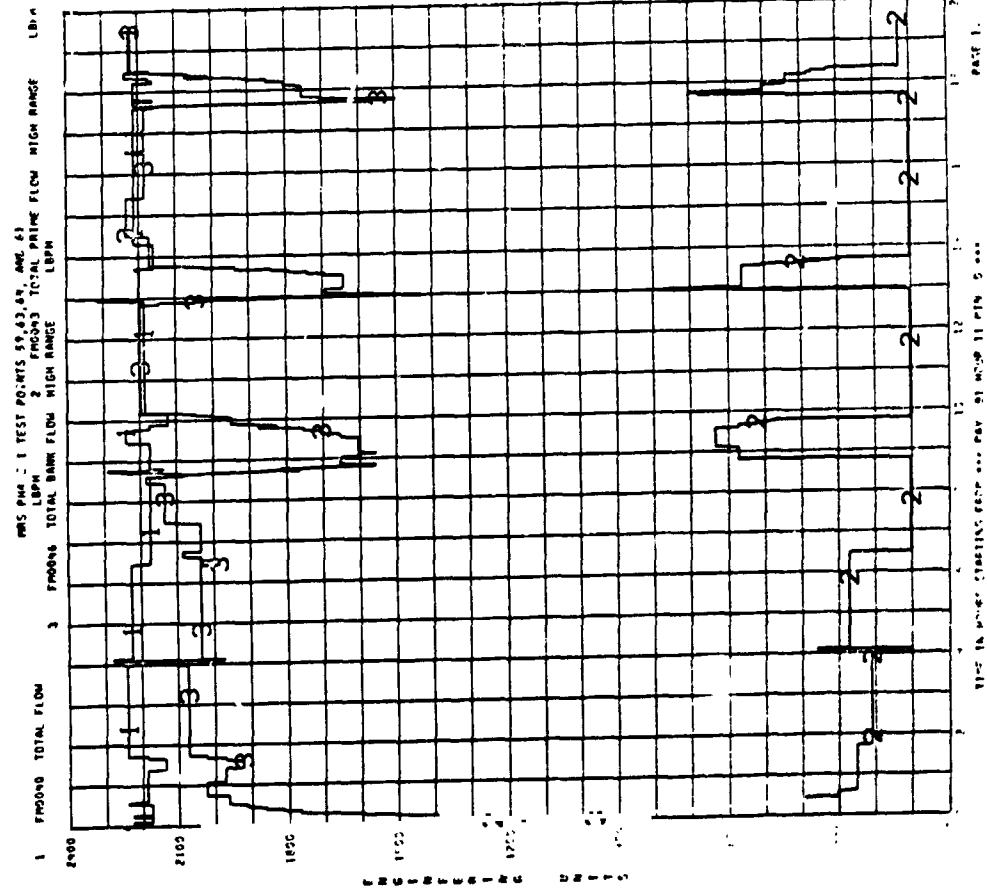


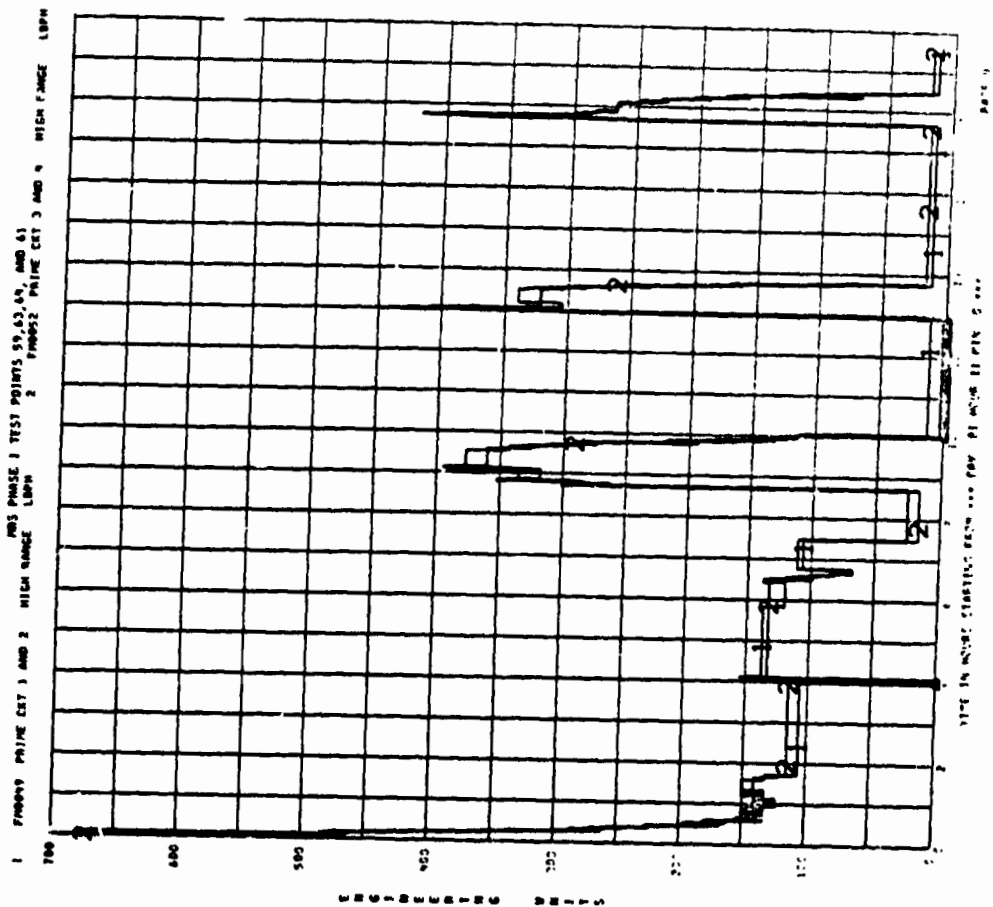
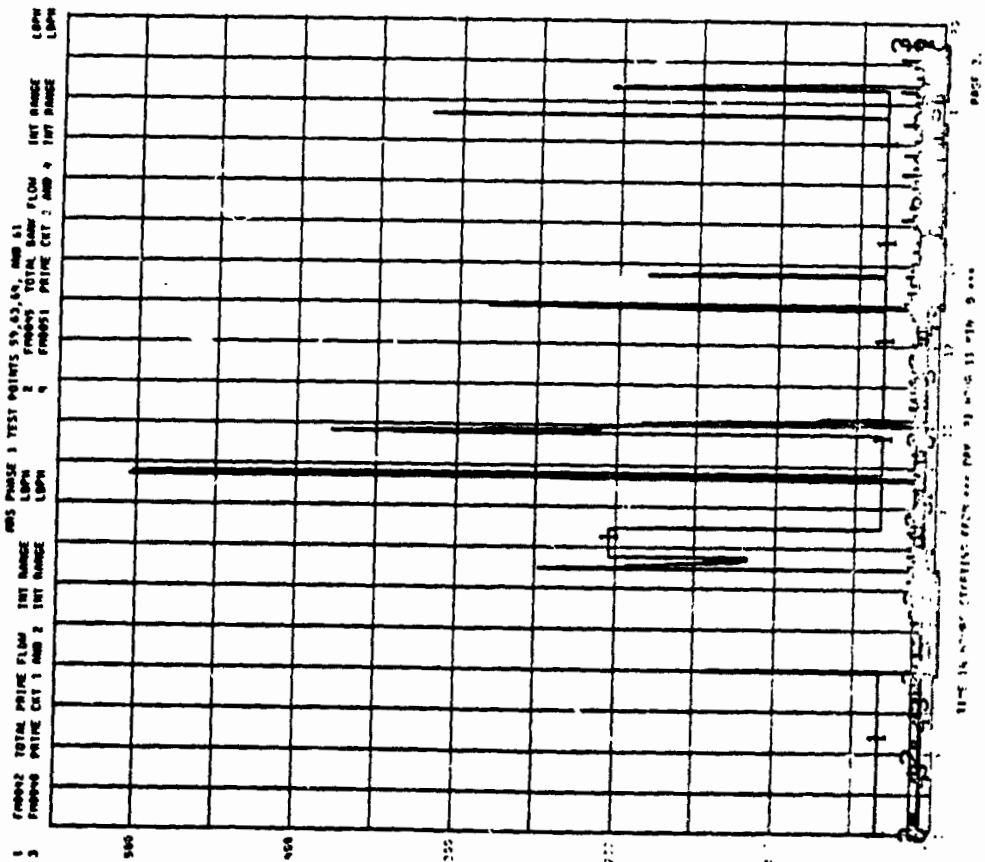
TEST GROUP M

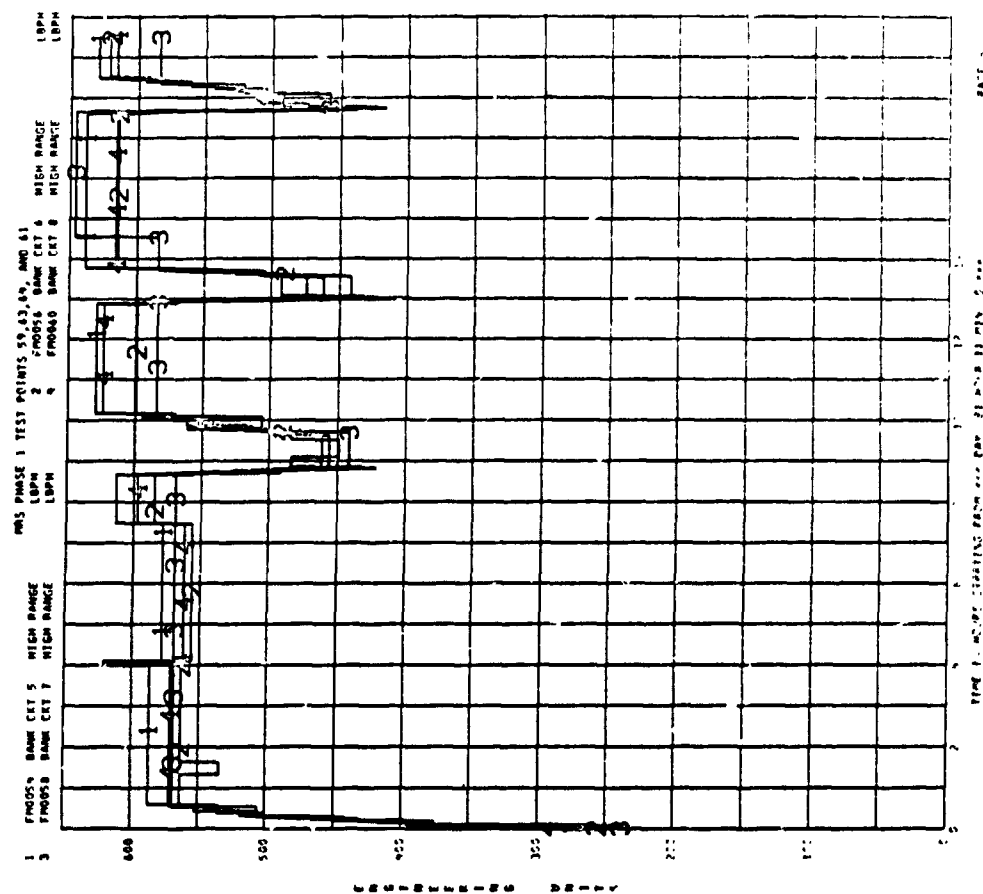
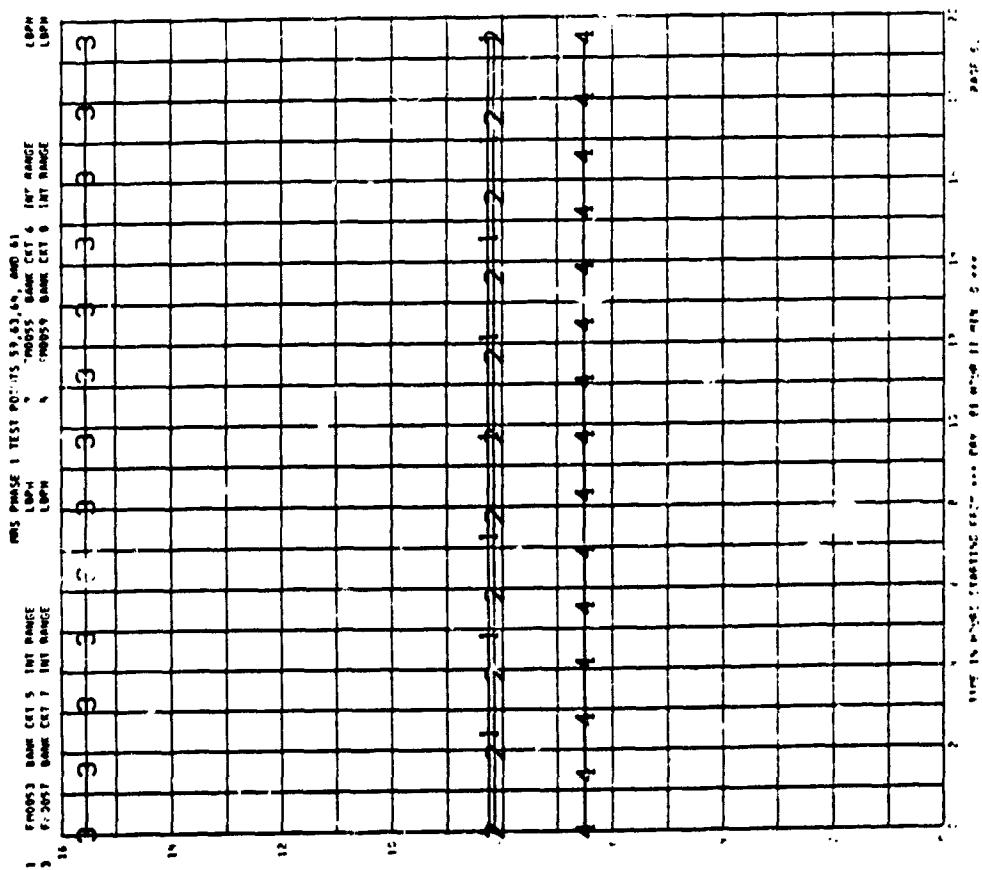
81:11:05 - 82:06:30

INCLUDES TEST POINTS

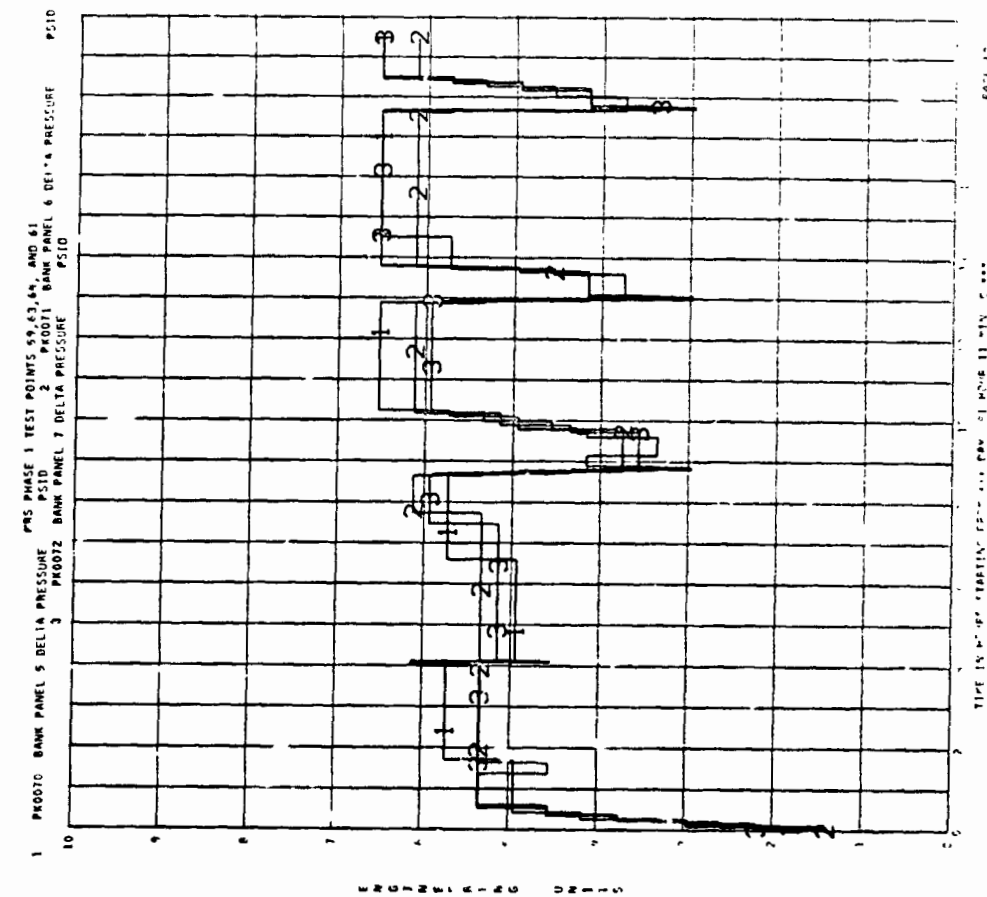
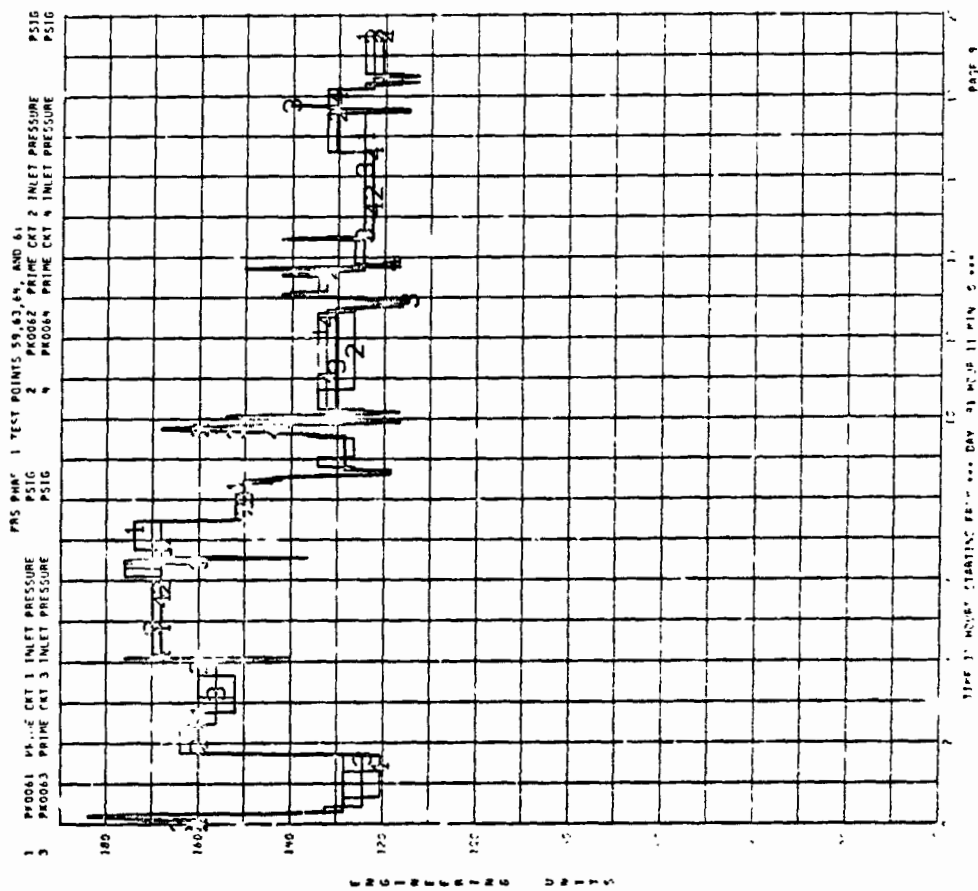
59  
63  
64  
67





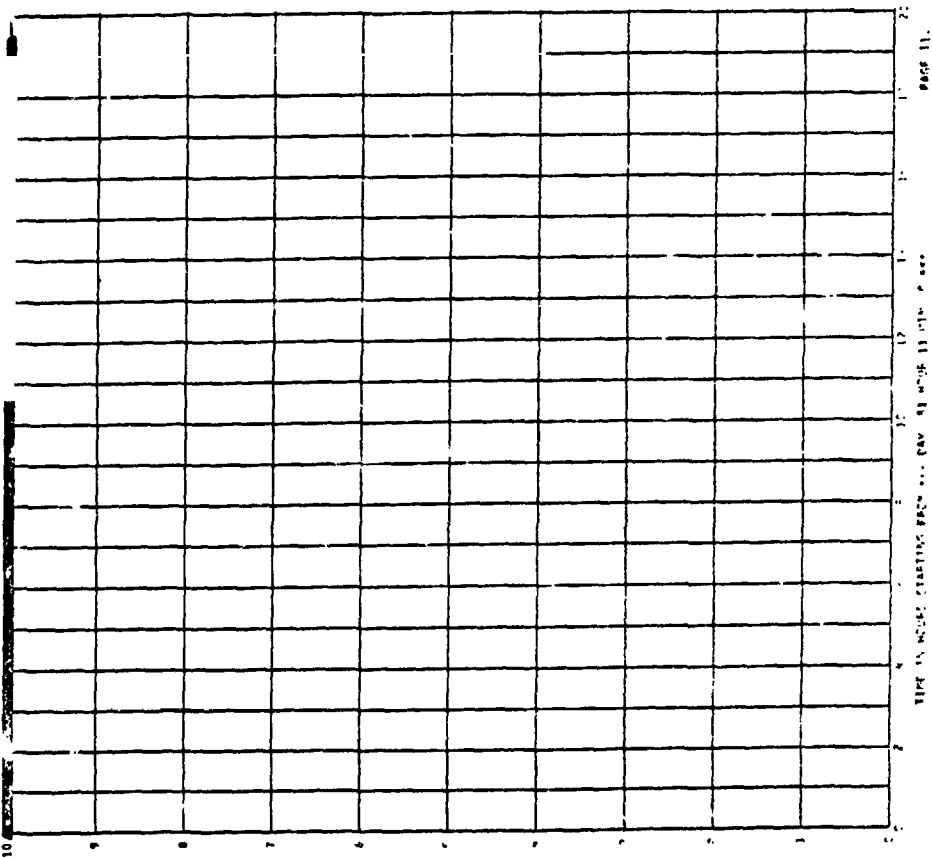






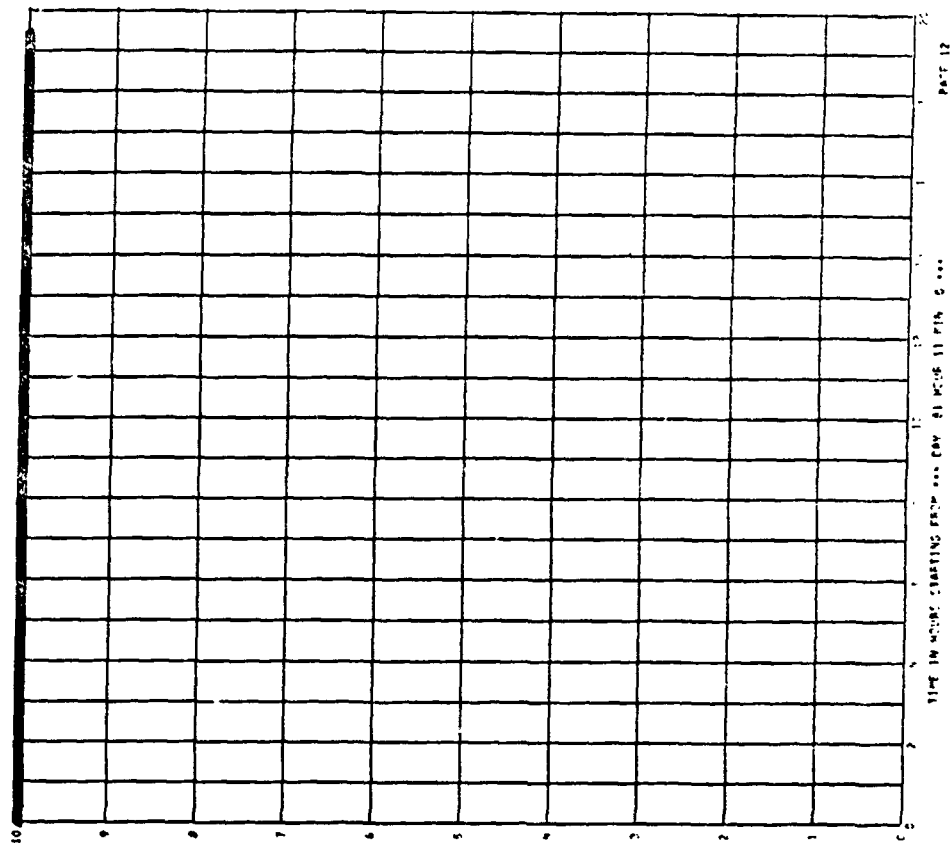
1 810001 PRIME SYSTEM INLET

1 810002 BANG SYSTEM INLET



810001 PRIME SYSTEM INLET

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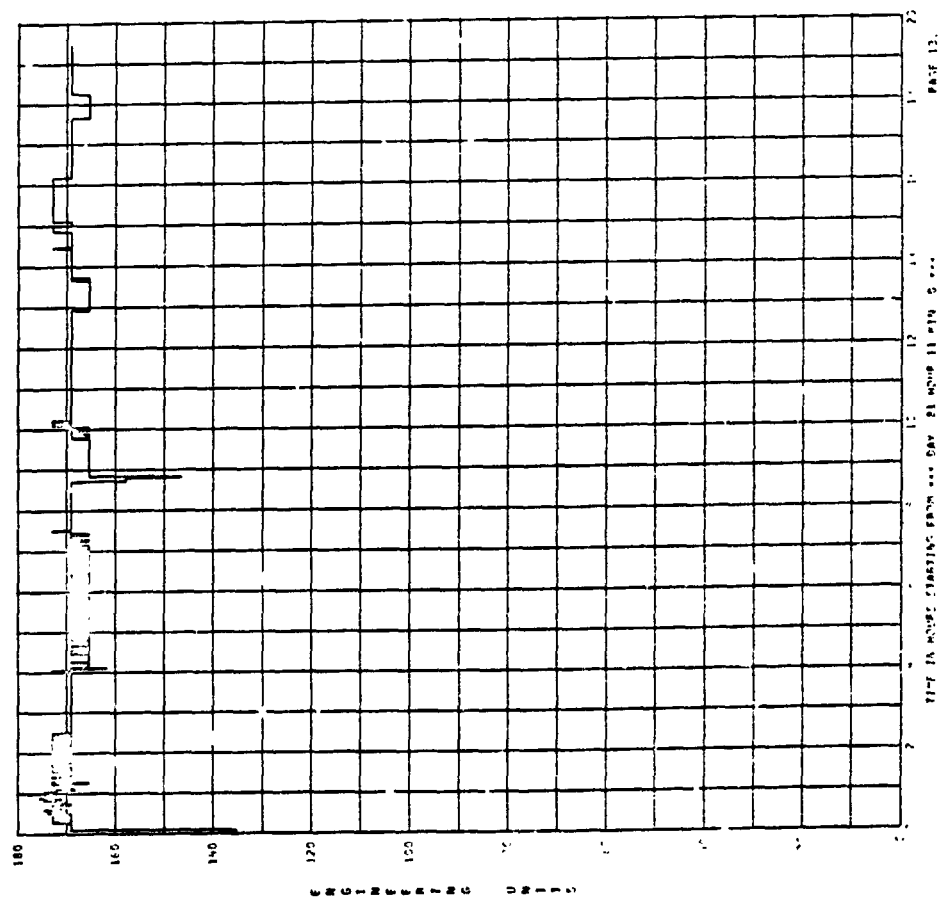


810002 BANG SYSTEM INLET

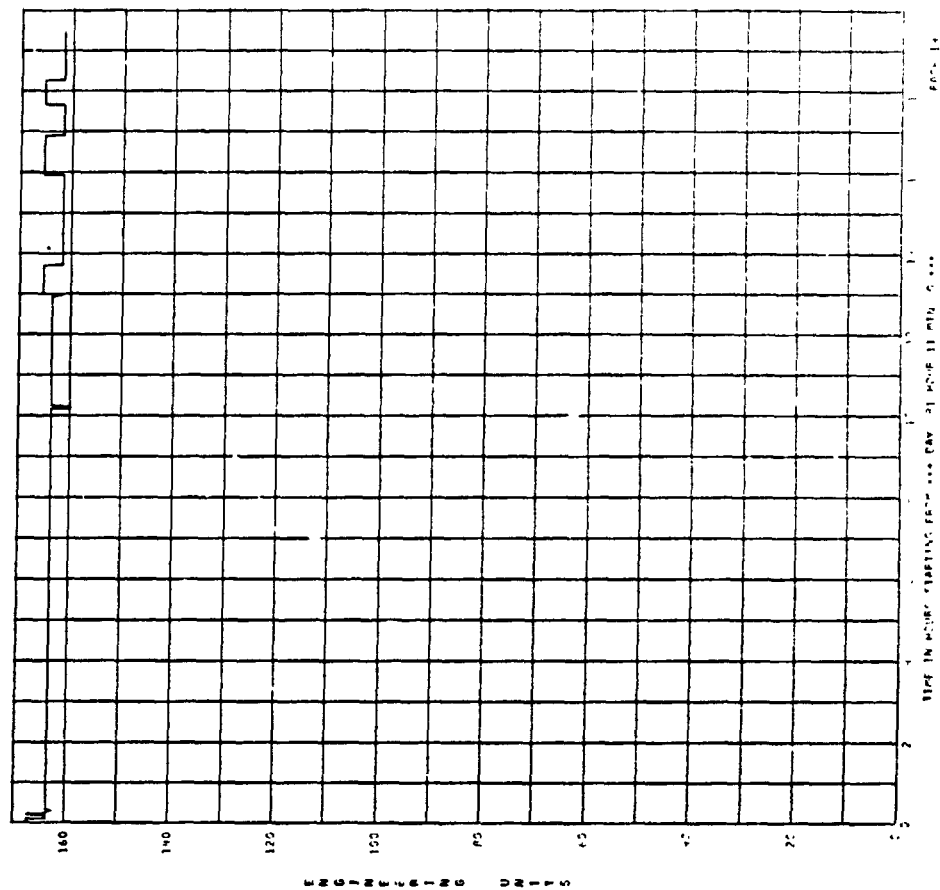
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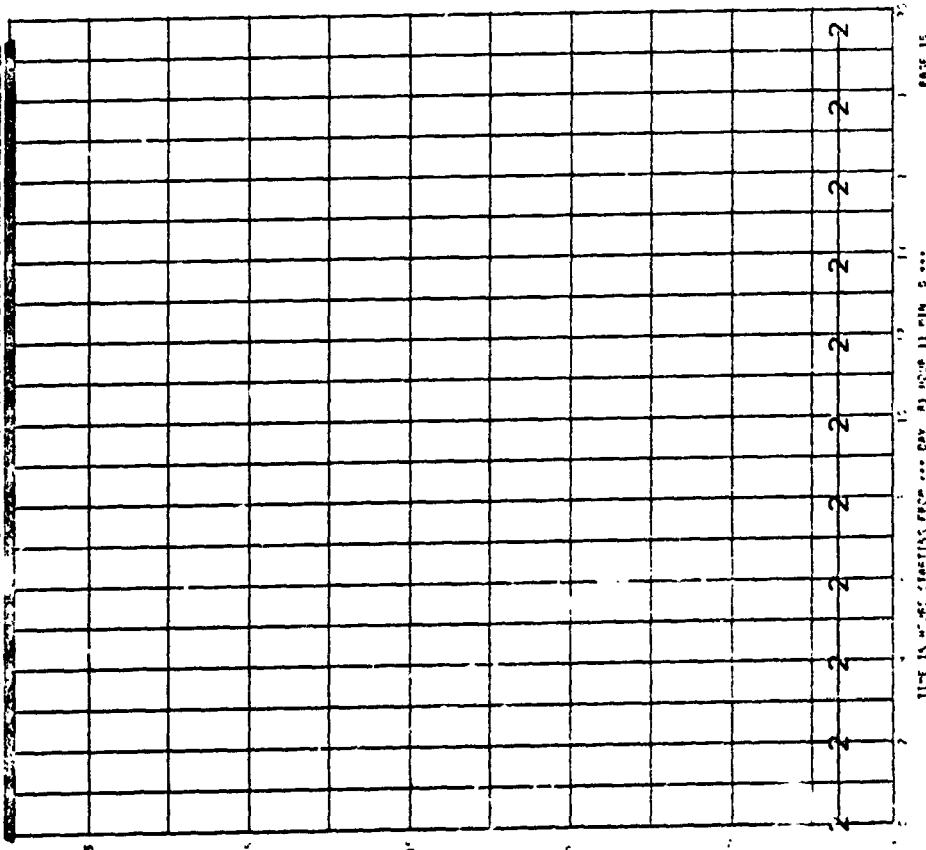
3 RMS PHASE 1 TEST POINTS 59, 63, 64, AND 61  
AJ0001 PRIME SYSTEM INLET



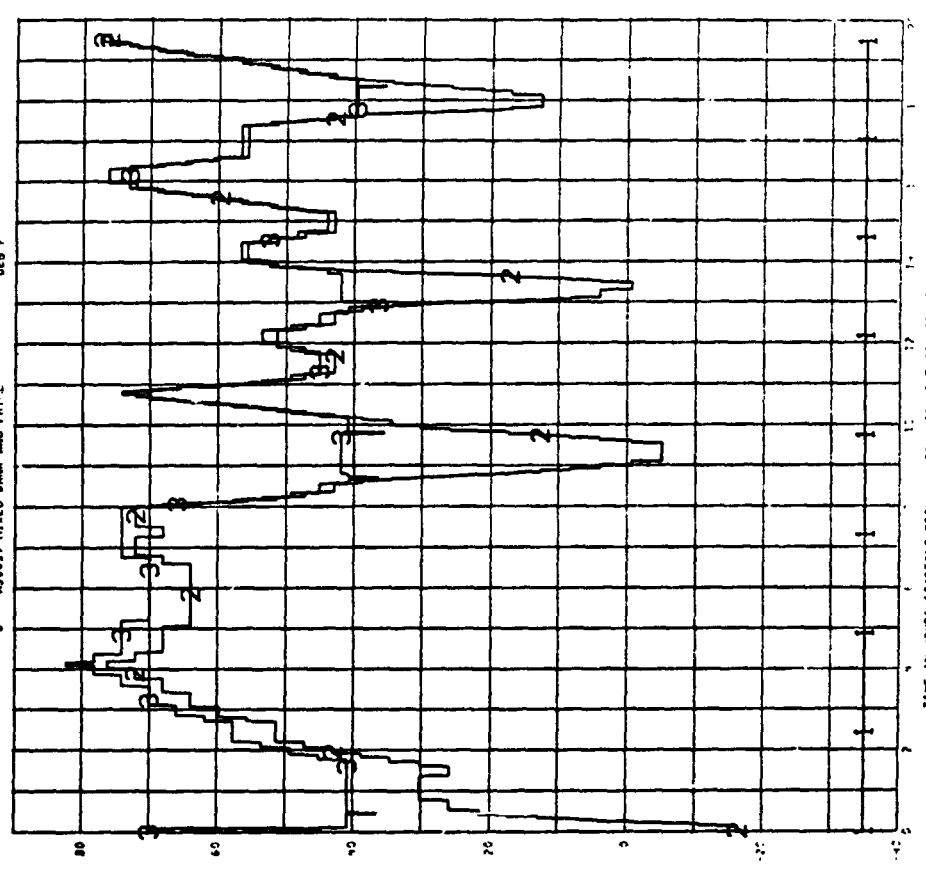
1 RMS PHASE 1 TEST POINTS 59, 63, 64, AND 61  
AJ0002 BANK SYSTEM INLET

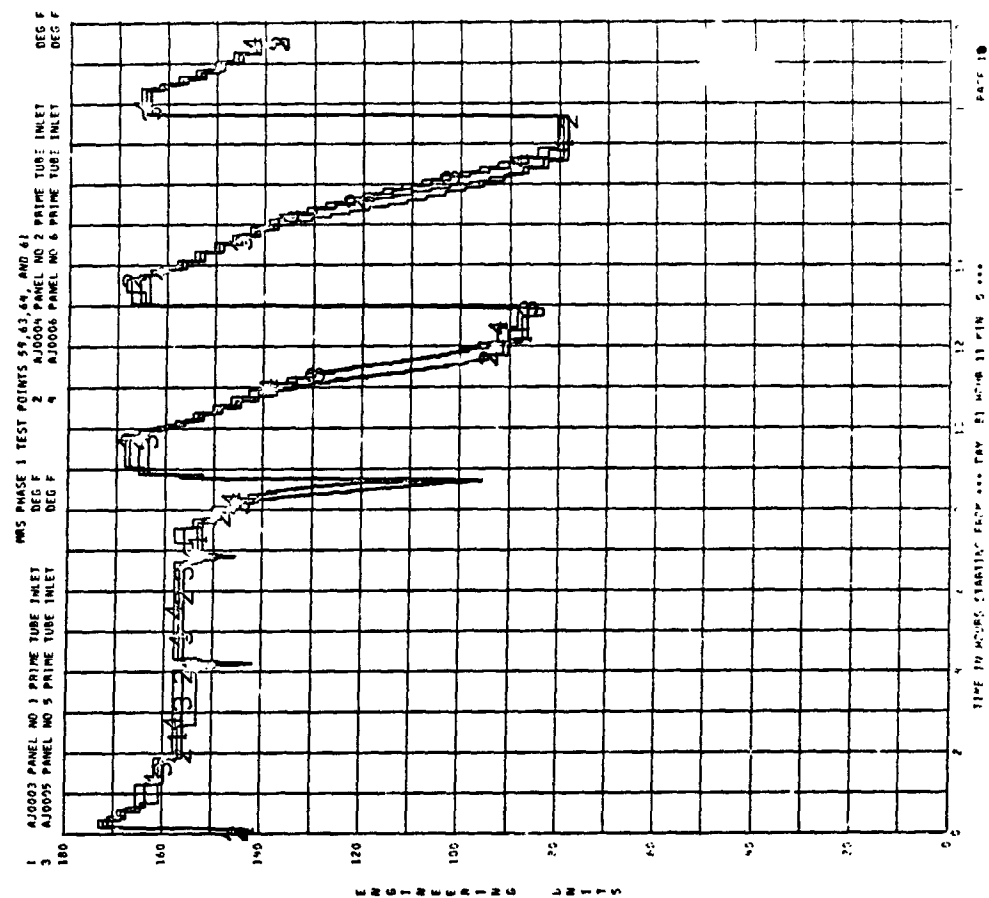
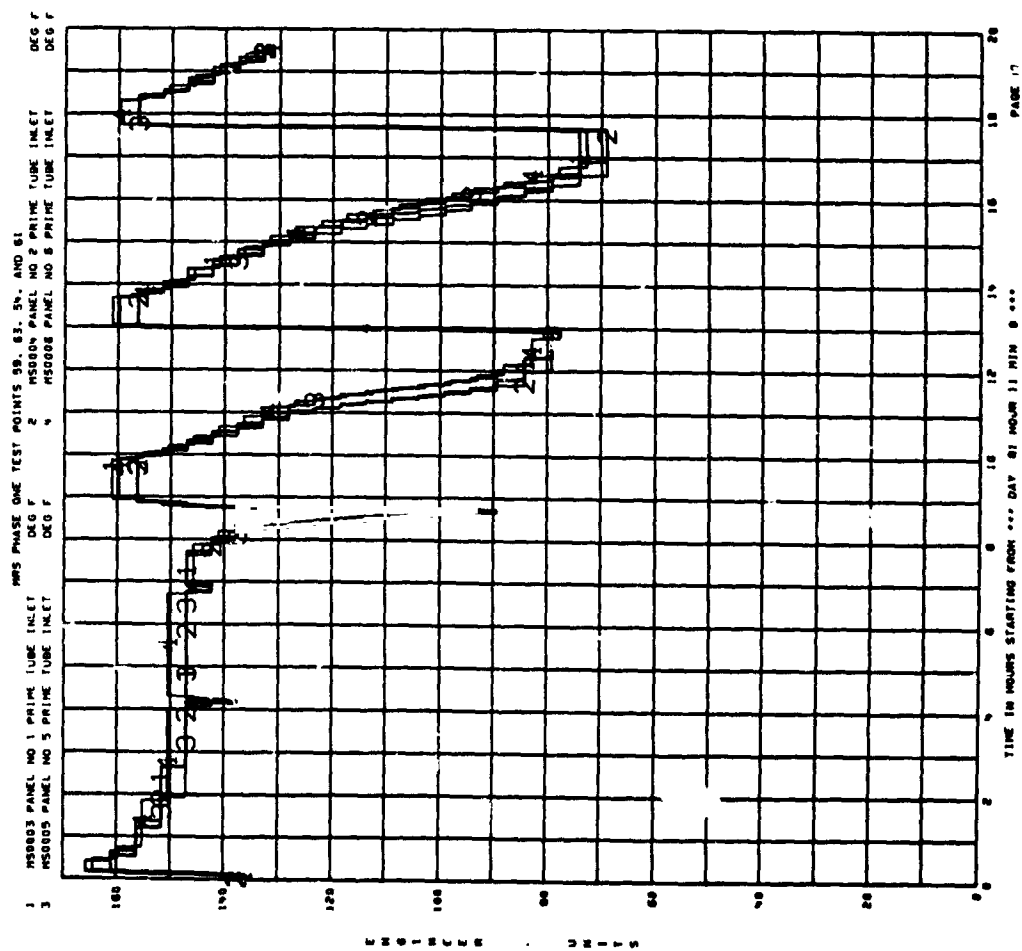


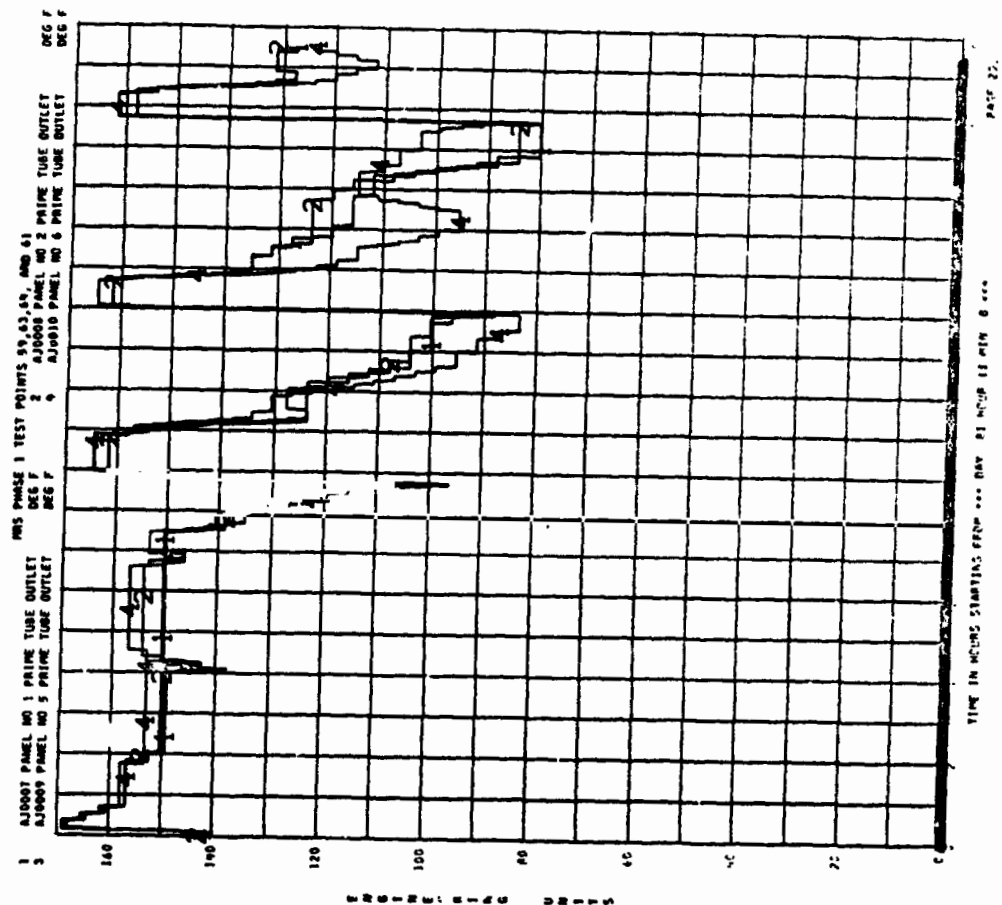
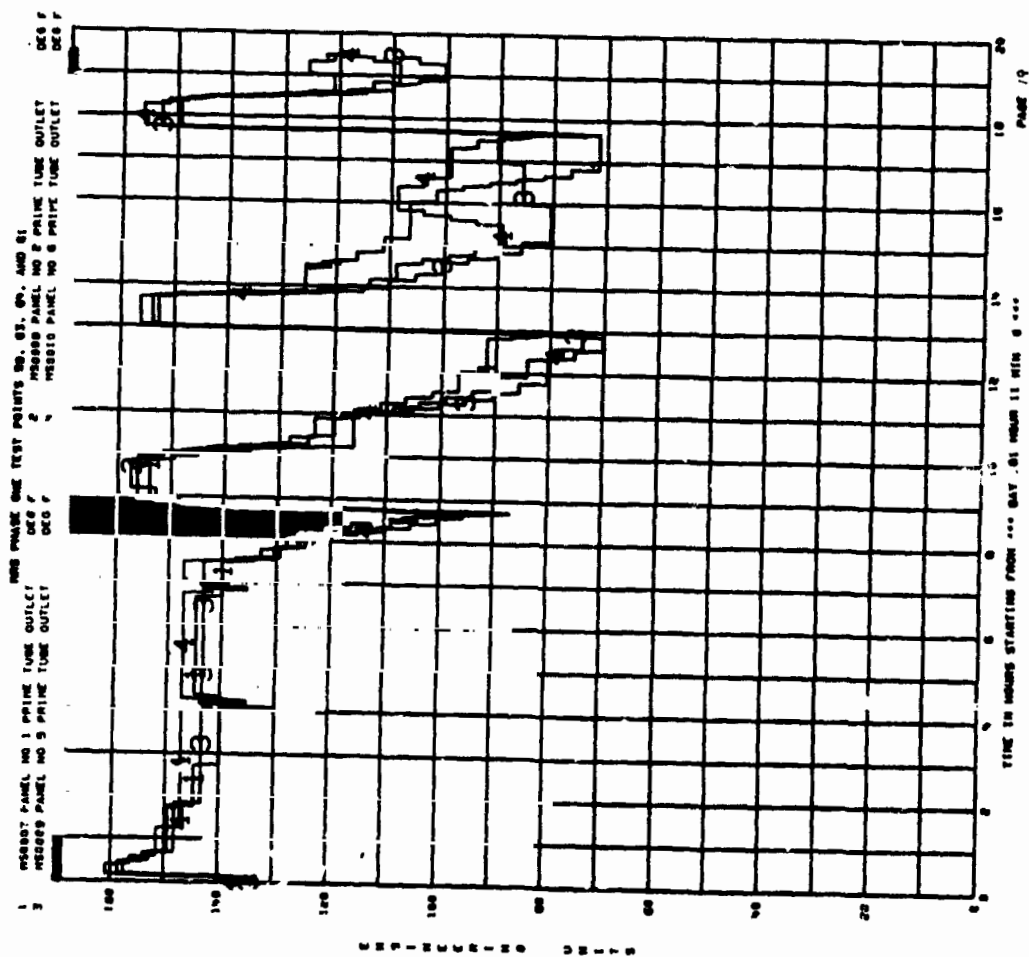
1. A10019 PRIME TUBES OUTLET MIX IN CH DEG F  
 2. A1003A BANK TUBES OUTLET MIX IN CH DEG F  
 3. A10039 MIXED BANK AND PRIME DEG F

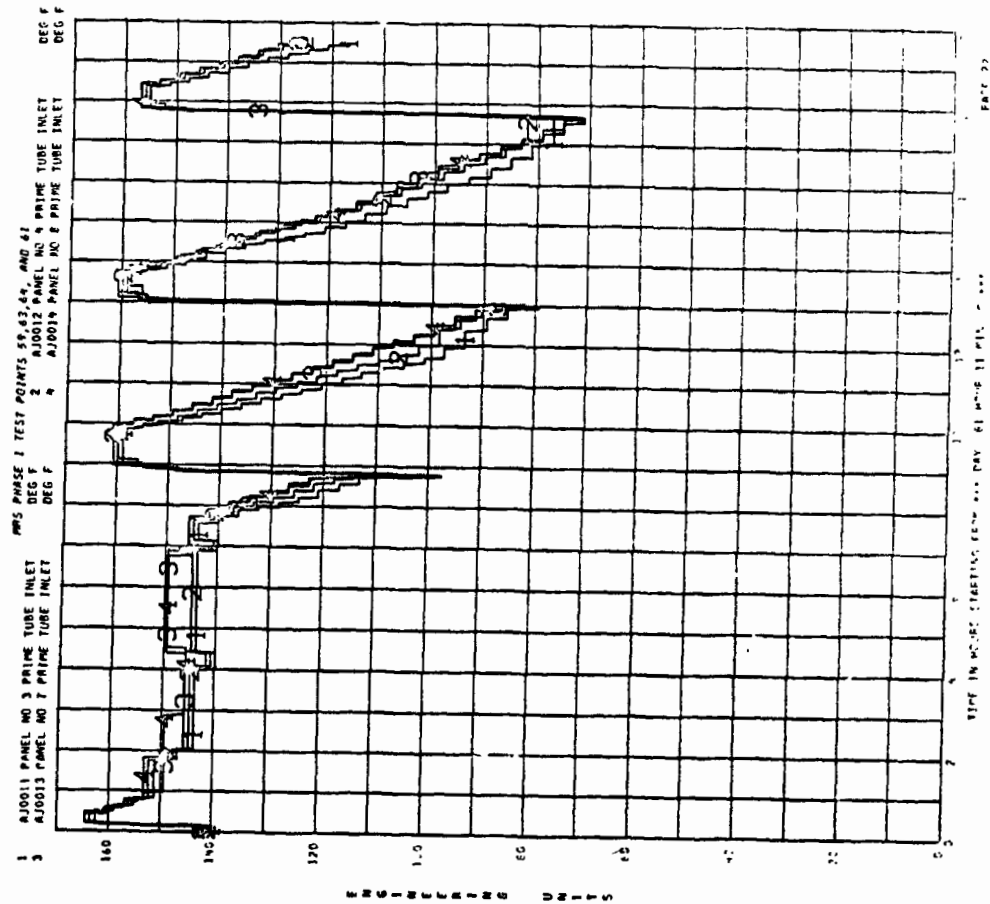
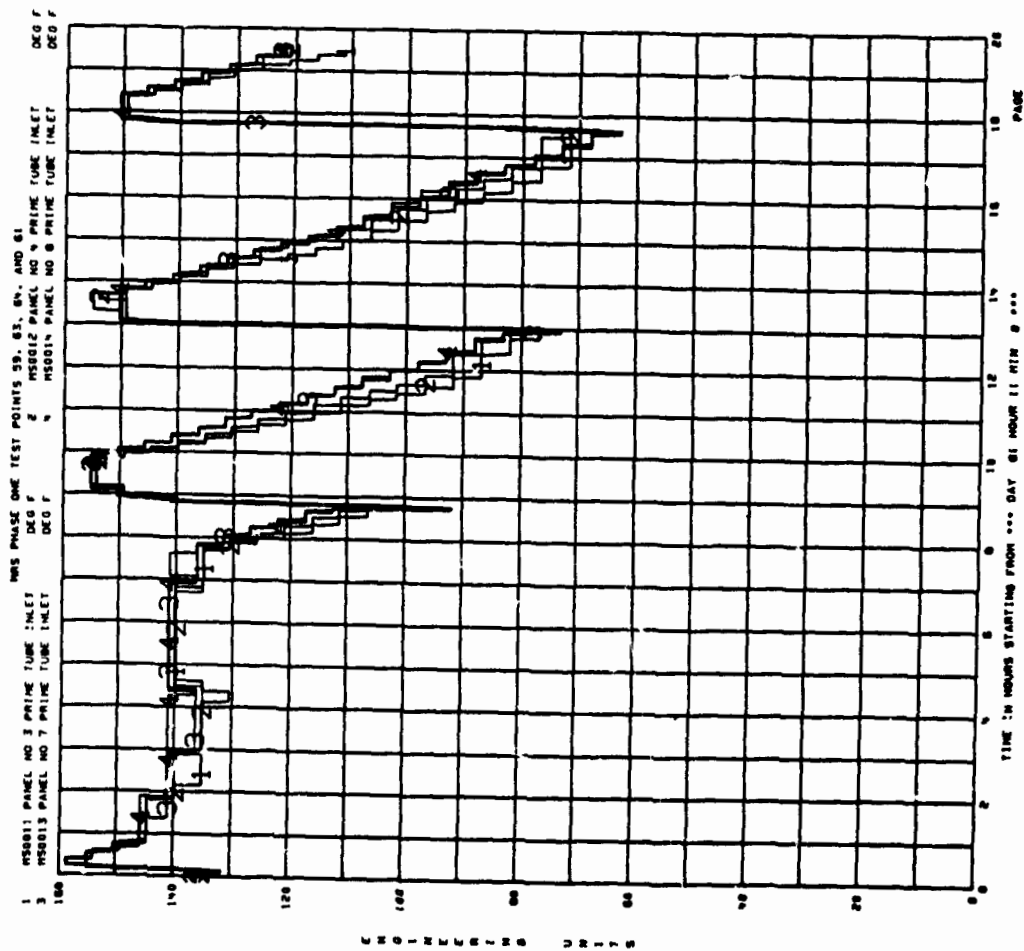


RMS PHASE 1 TEST POINTS 59, 63, 64, AND 61  
 1. A10019 PRIME TUBES OUTLET MIX IN CH DEG F  
 2. A1003B BANK TUBES OUTLET MIX IN CH DEG F  
 3. A10039 MIXED BANK AND PRIME DEG F



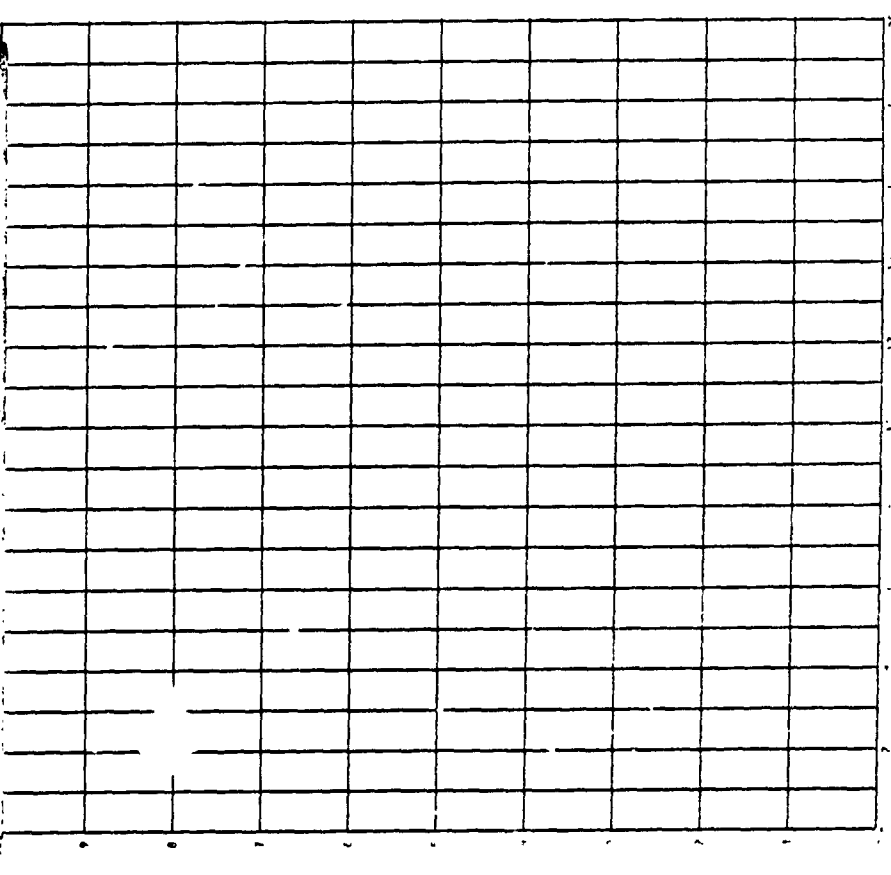




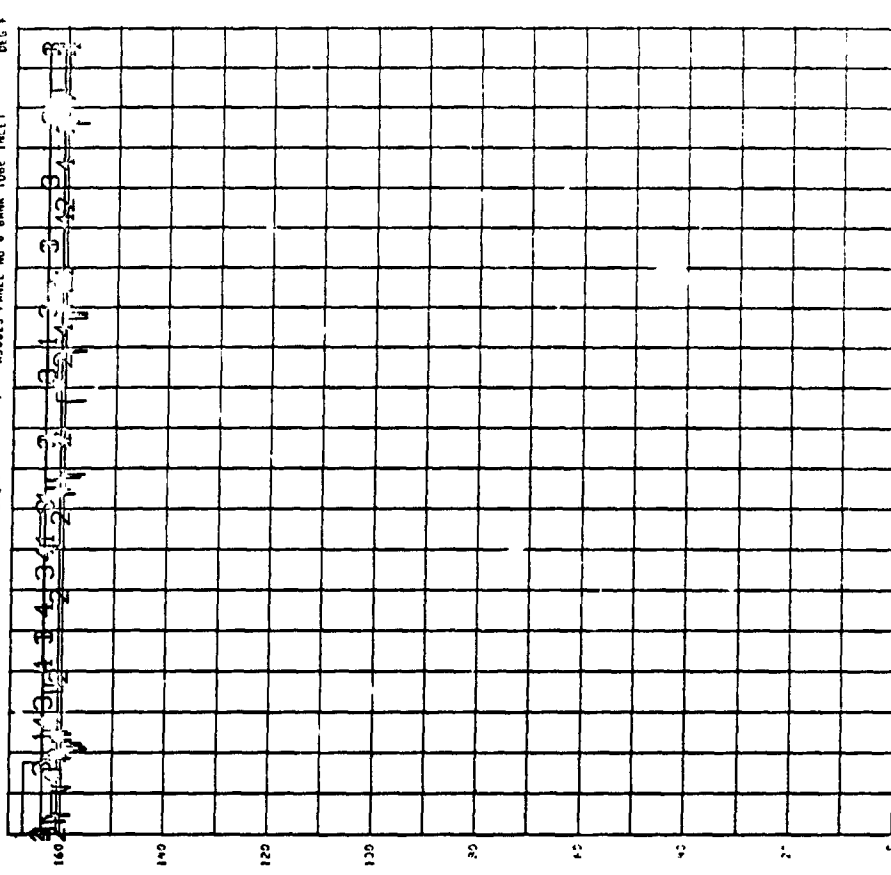


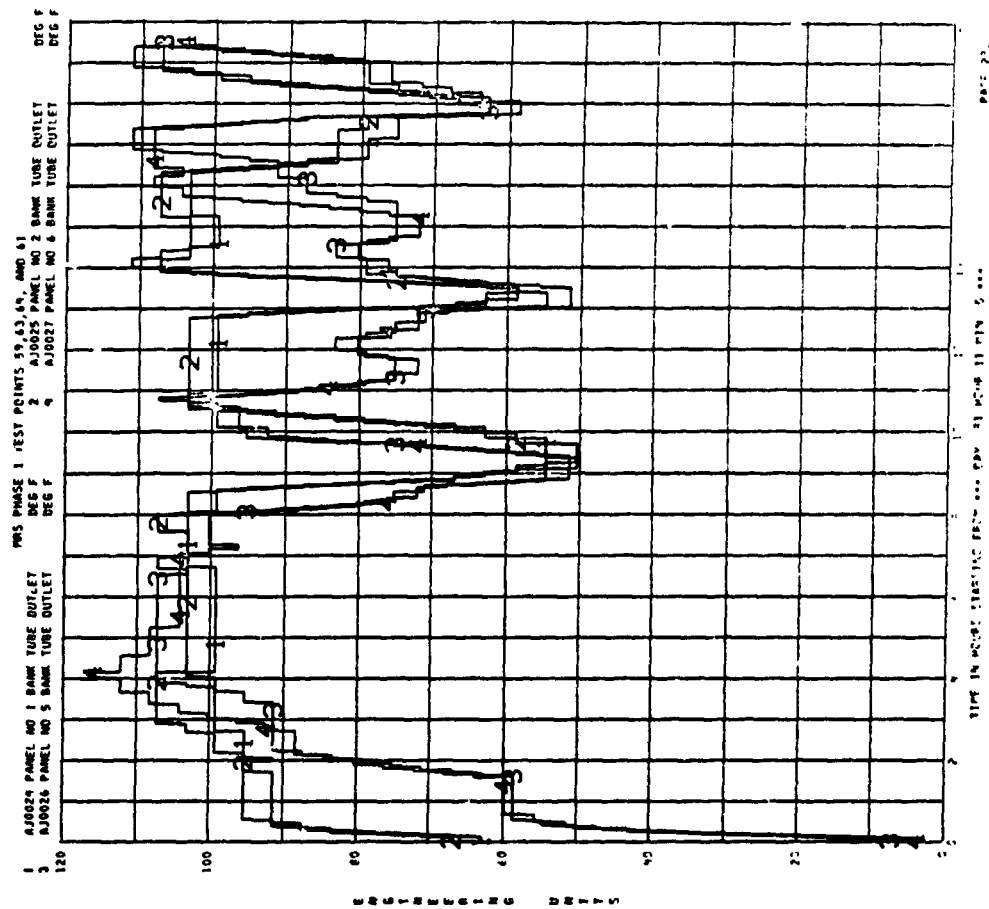
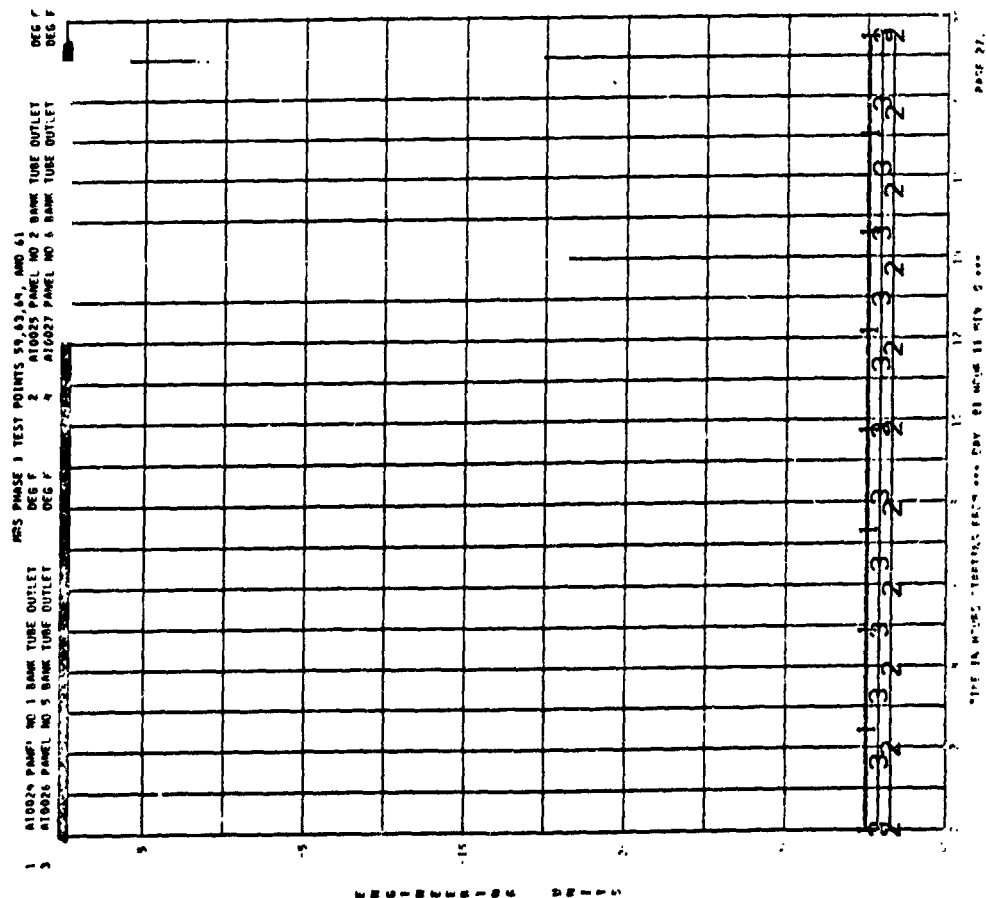


1 AJ0020 PANEL NO 1 BANK TUBE INLET DEG F  
 2 AJ0021 PANEL NO 2 BANK TUBE INLET DEG F  
 3 AJ0022 PANEL NO 3 BANK TUBE INLET DEG F  
 4 AJ0023 PANEL NO 4 BANK TUBE INLET DEG F  
 5 AJ0024 PANEL NO 5 BANK TUBE INLET DEG F  
 6 AJ0025 PANEL NO 6 BANK TUBE INLET DEG F

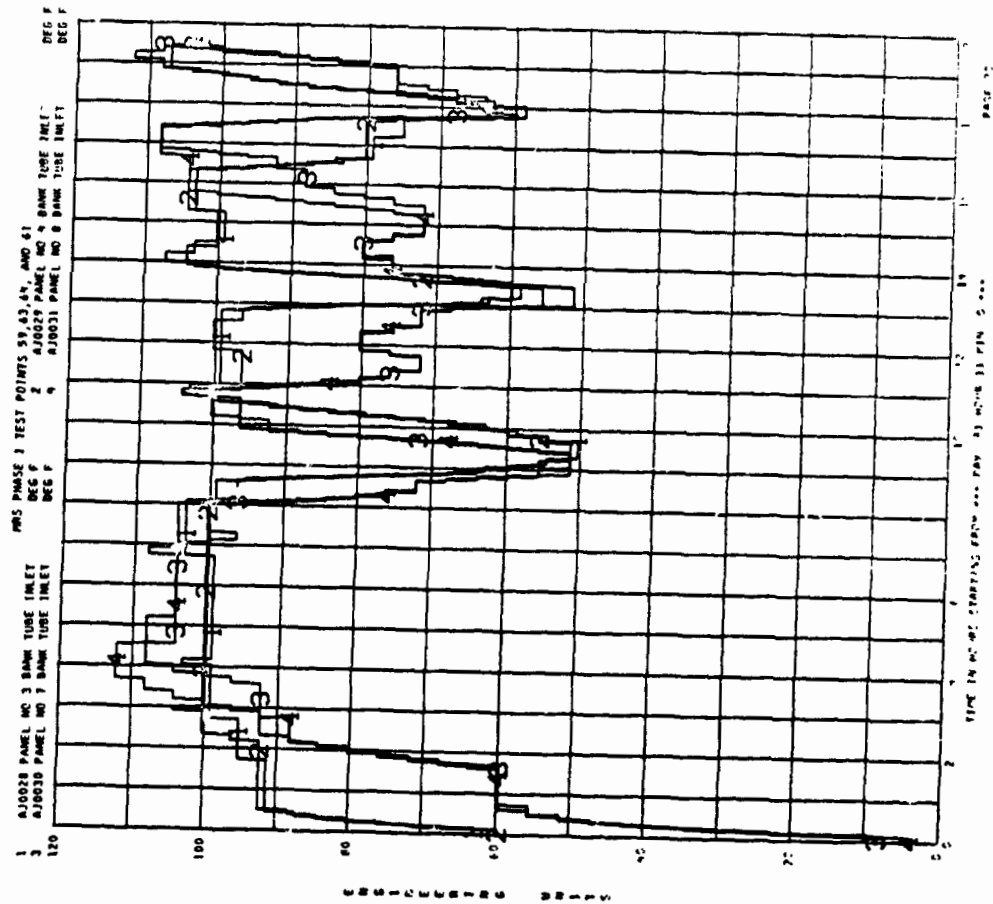
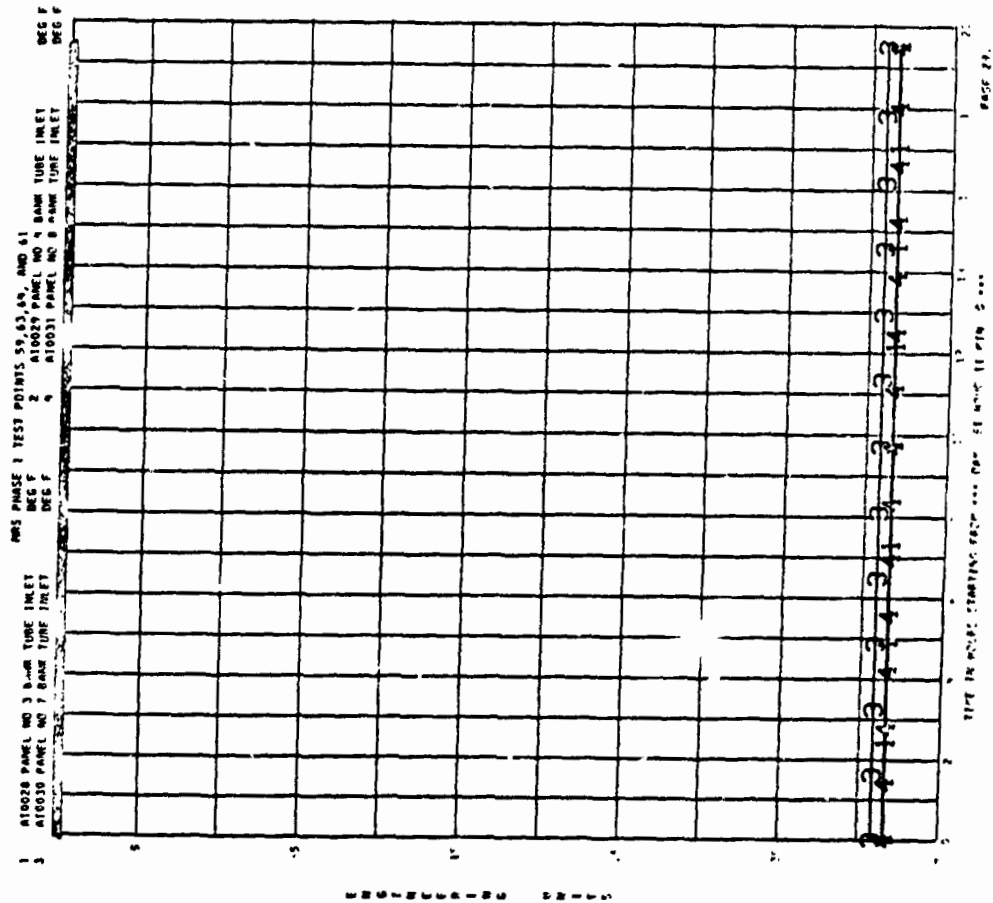


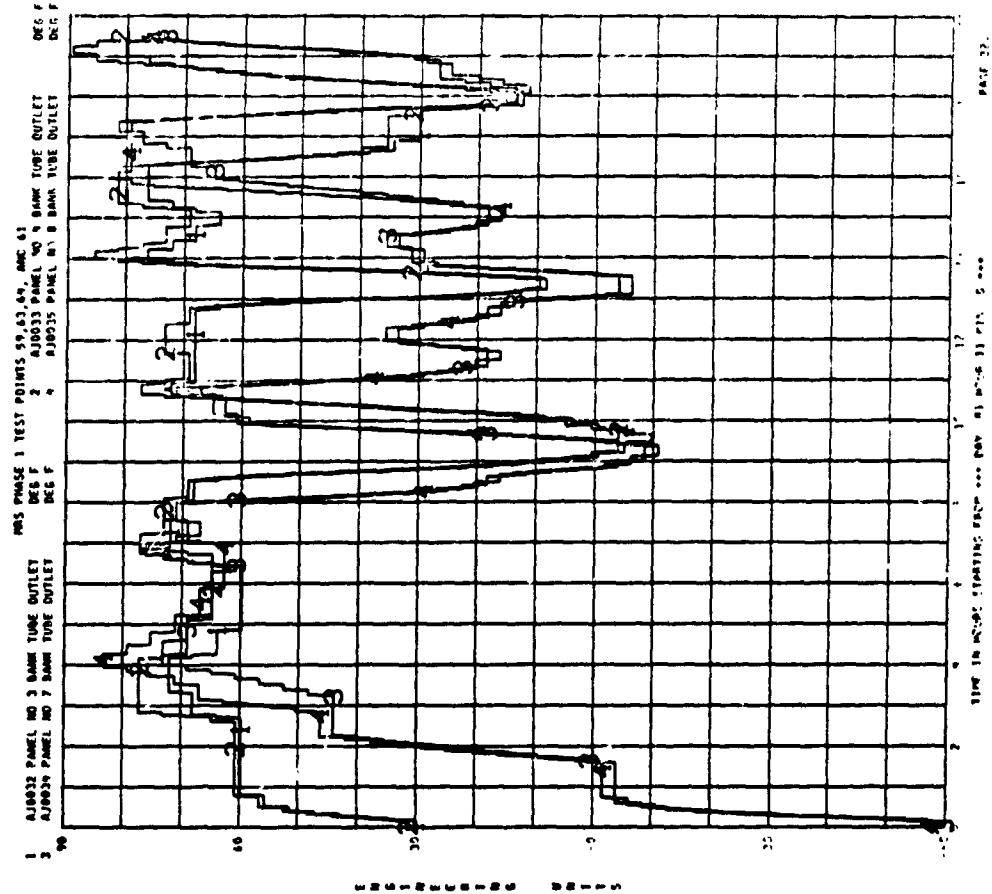
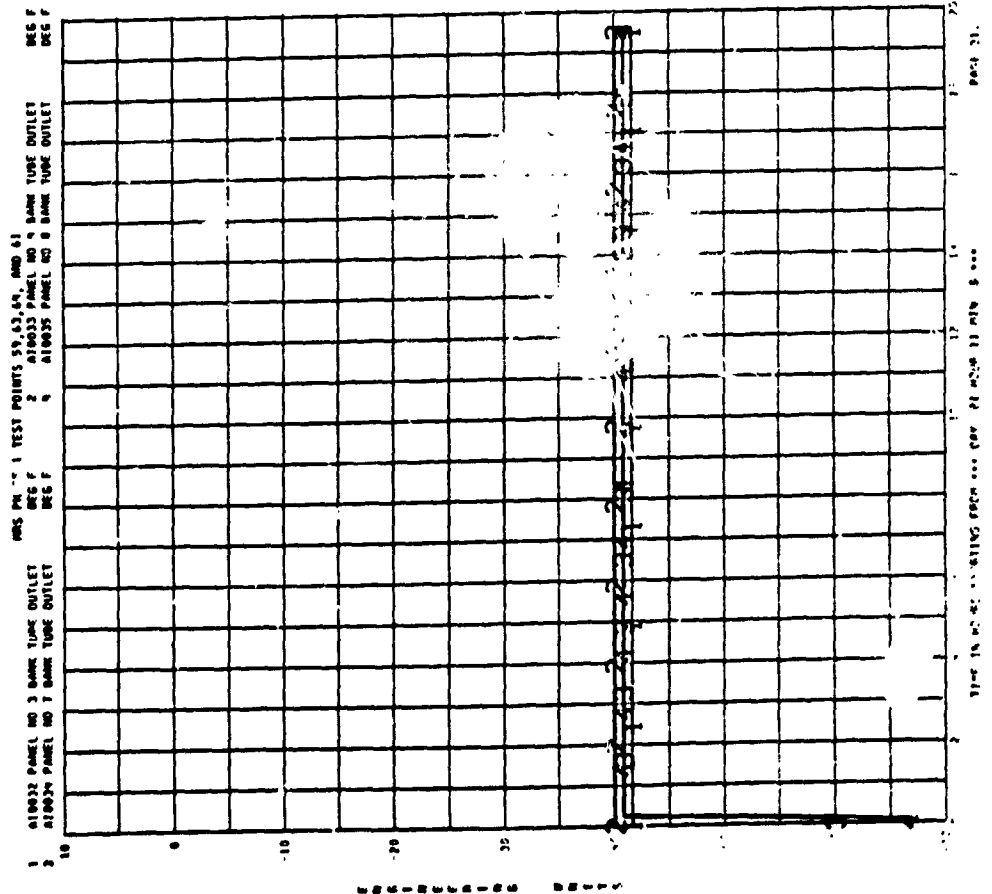
1 AJ0020 PANEL NO 1 BANK TUBE INLET DEG F  
 2 AJ0021 PANEL NO 2 BANK TUBE INLET DEG F  
 3 AJ0022 PANEL NO 3 BANK TUBE INLET DEG F  
 4 AJ0023 PANEL NO 4 BANK TUBE INLET DEG F  
 5 AJ0024 PANEL NO 5 BANK TUBE INLET DEG F  
 6 AJ0025 PANEL NO 6 BANK TUBE INLET DEG F

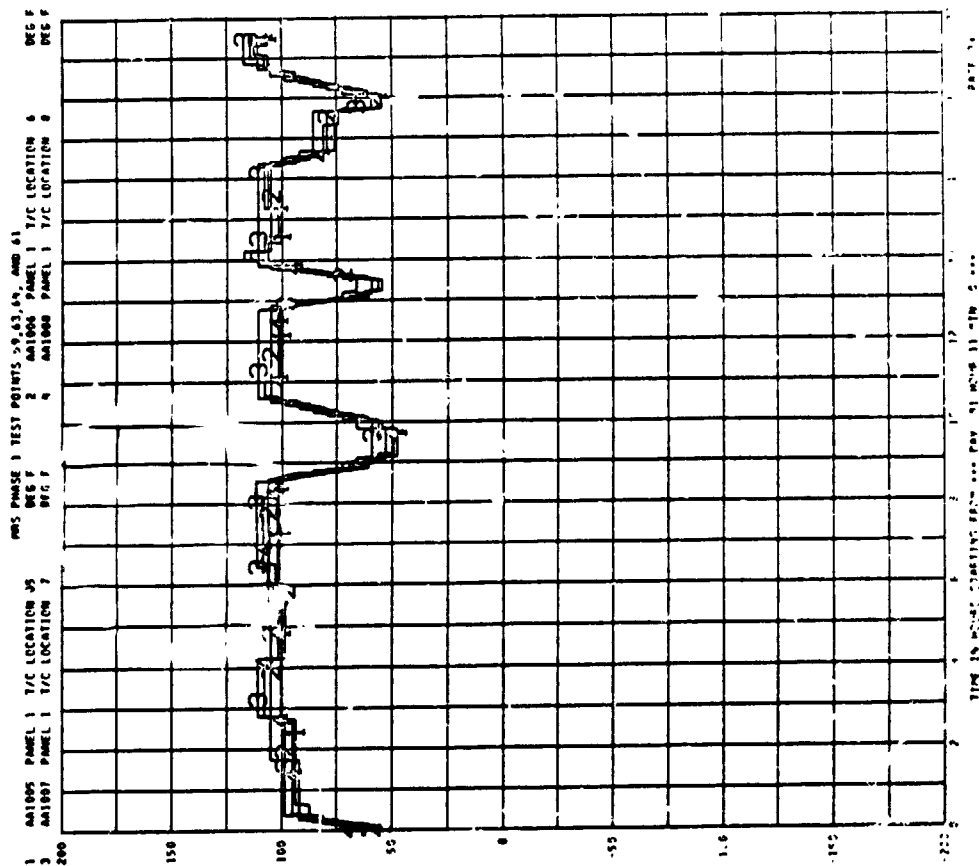
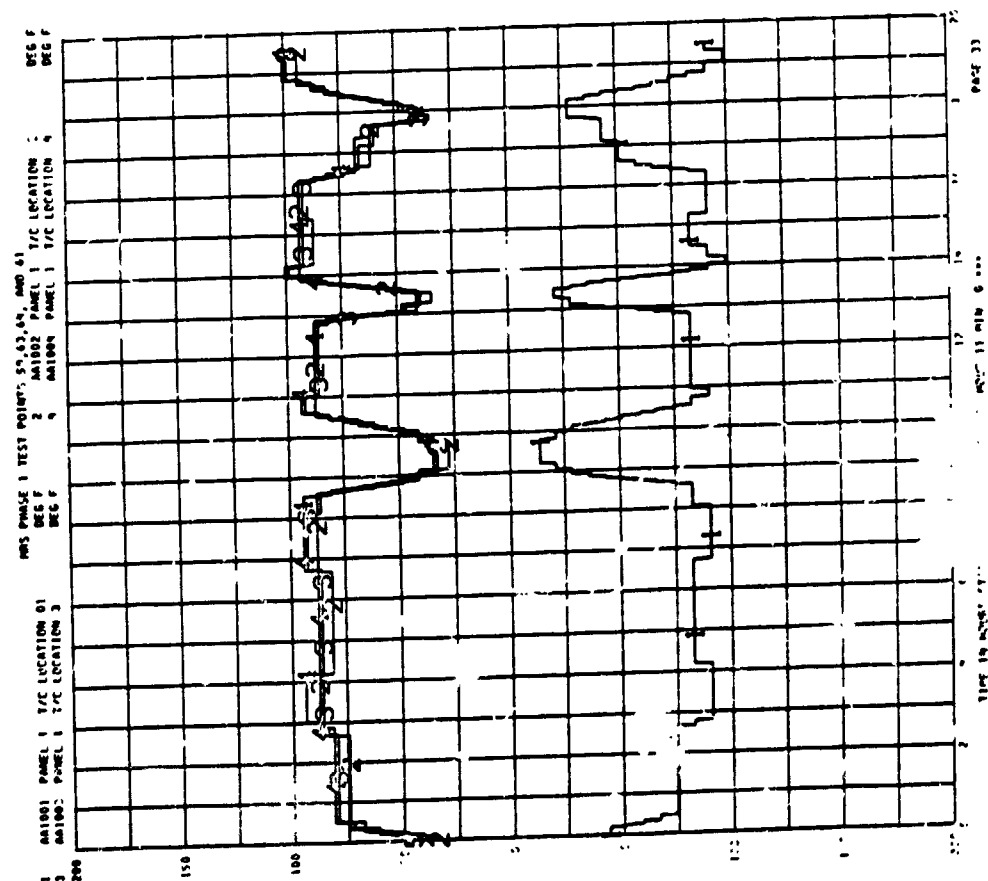




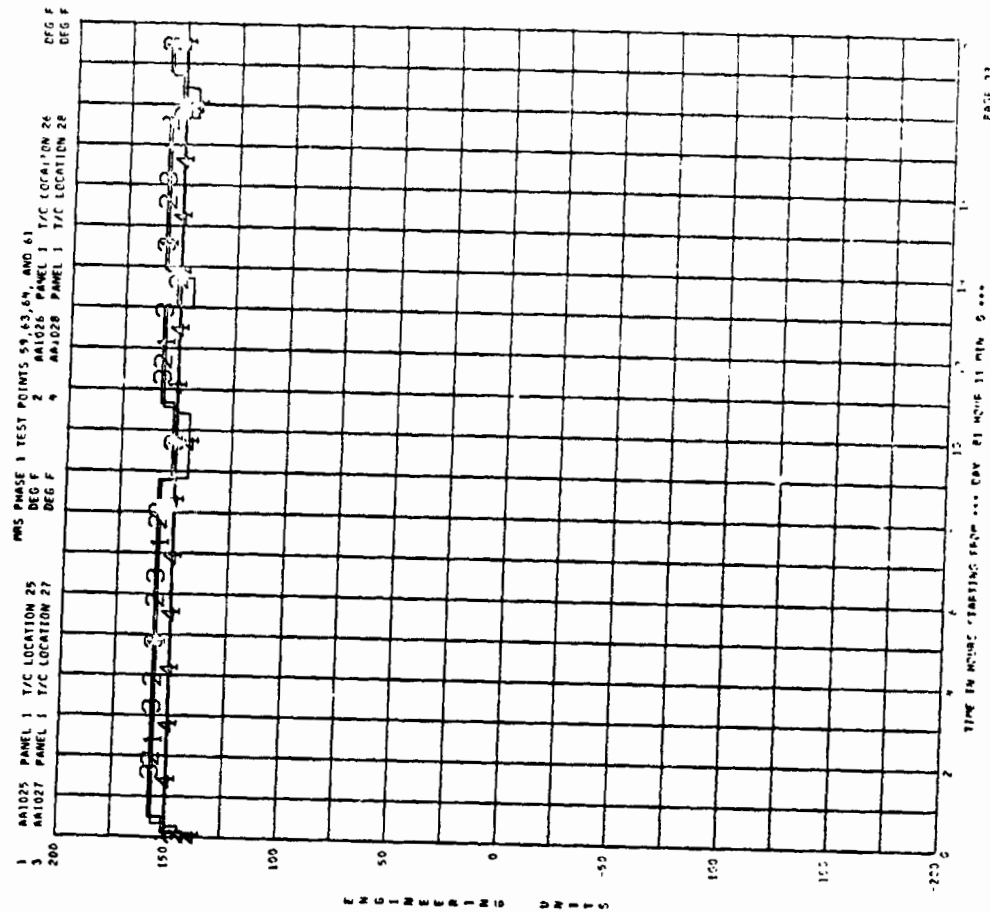
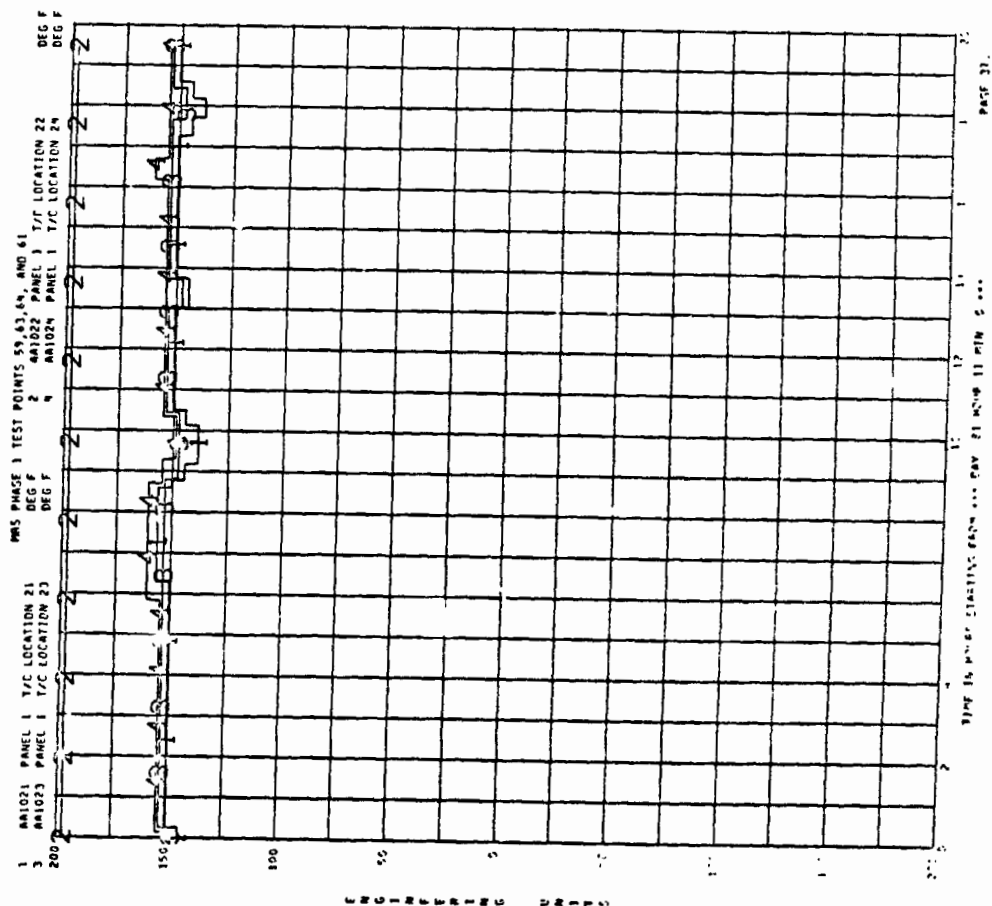


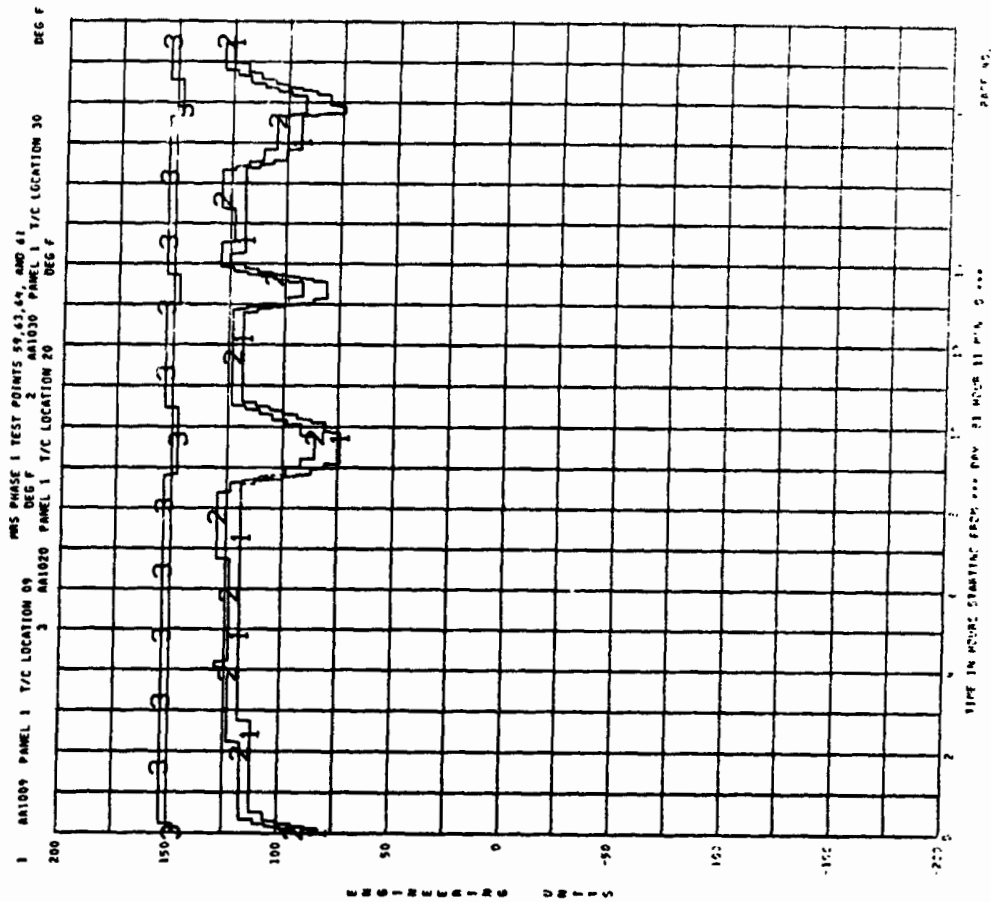
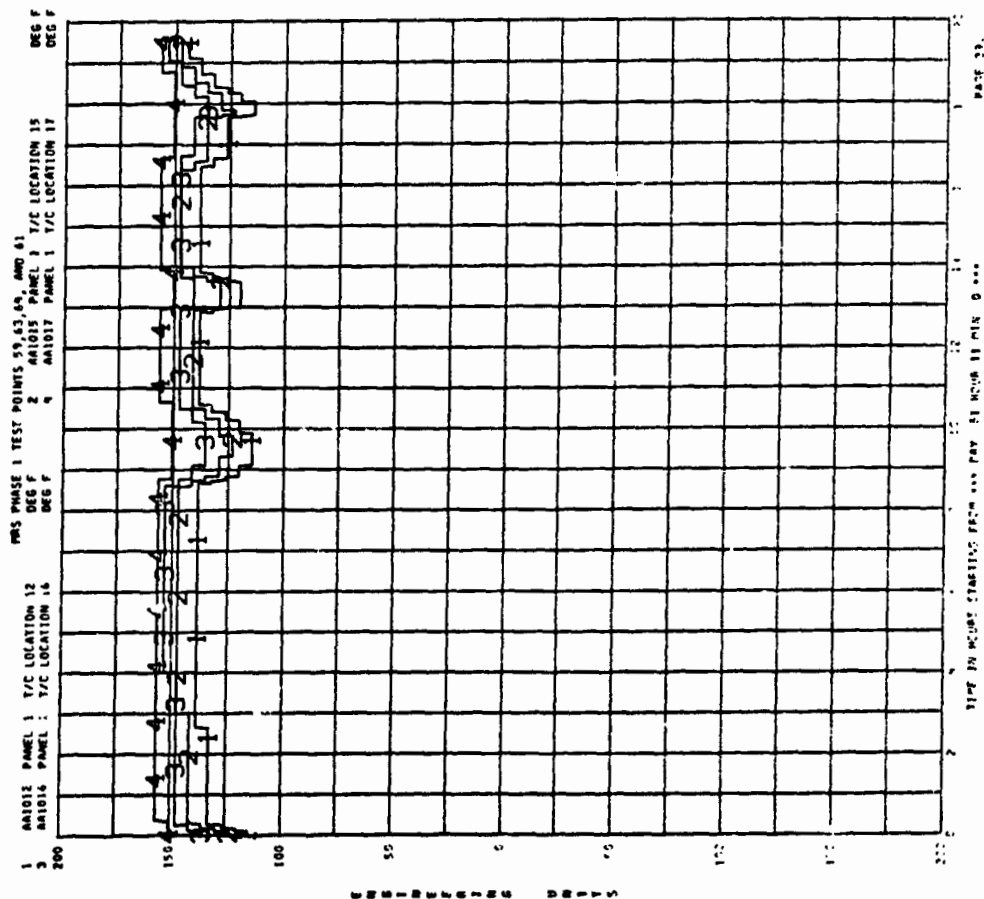


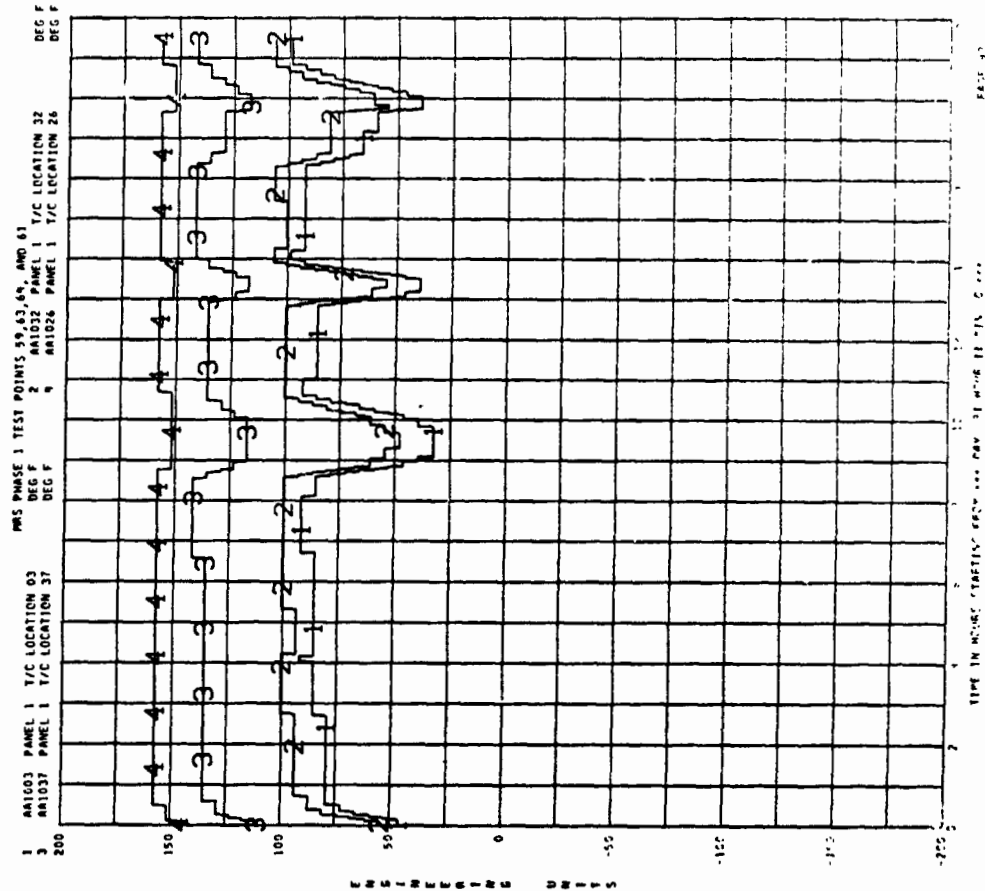
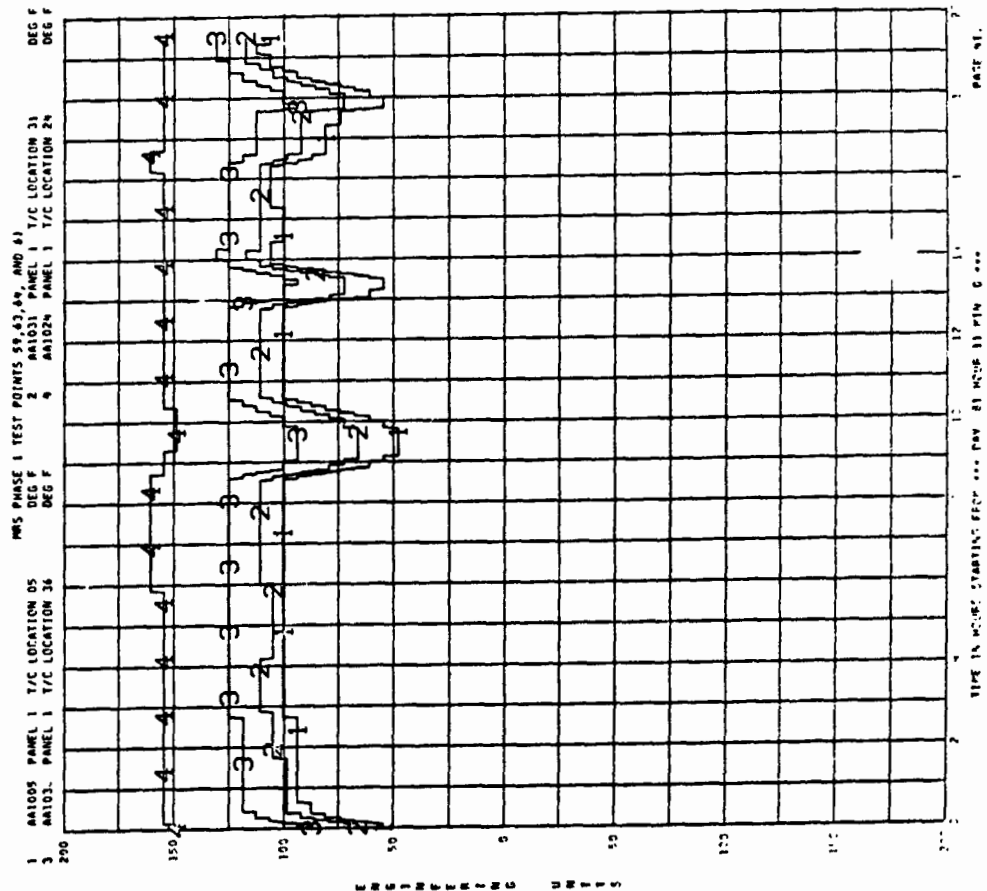


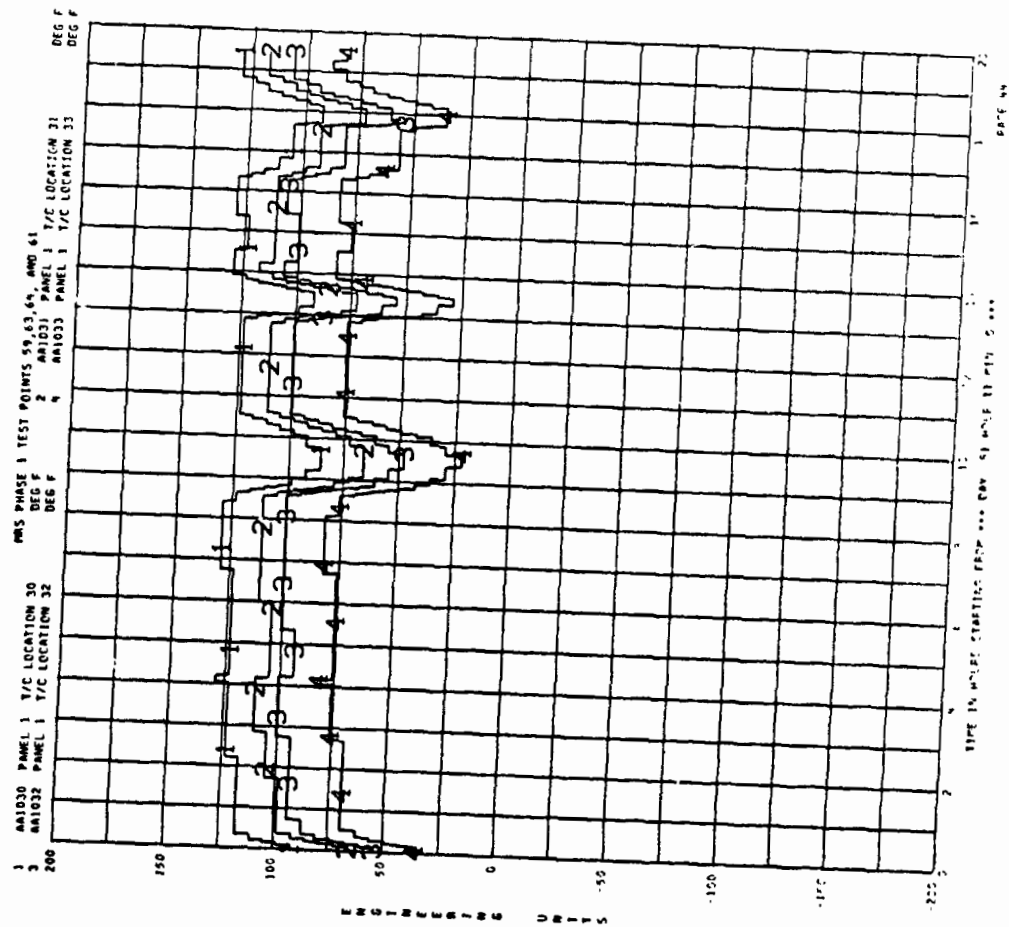
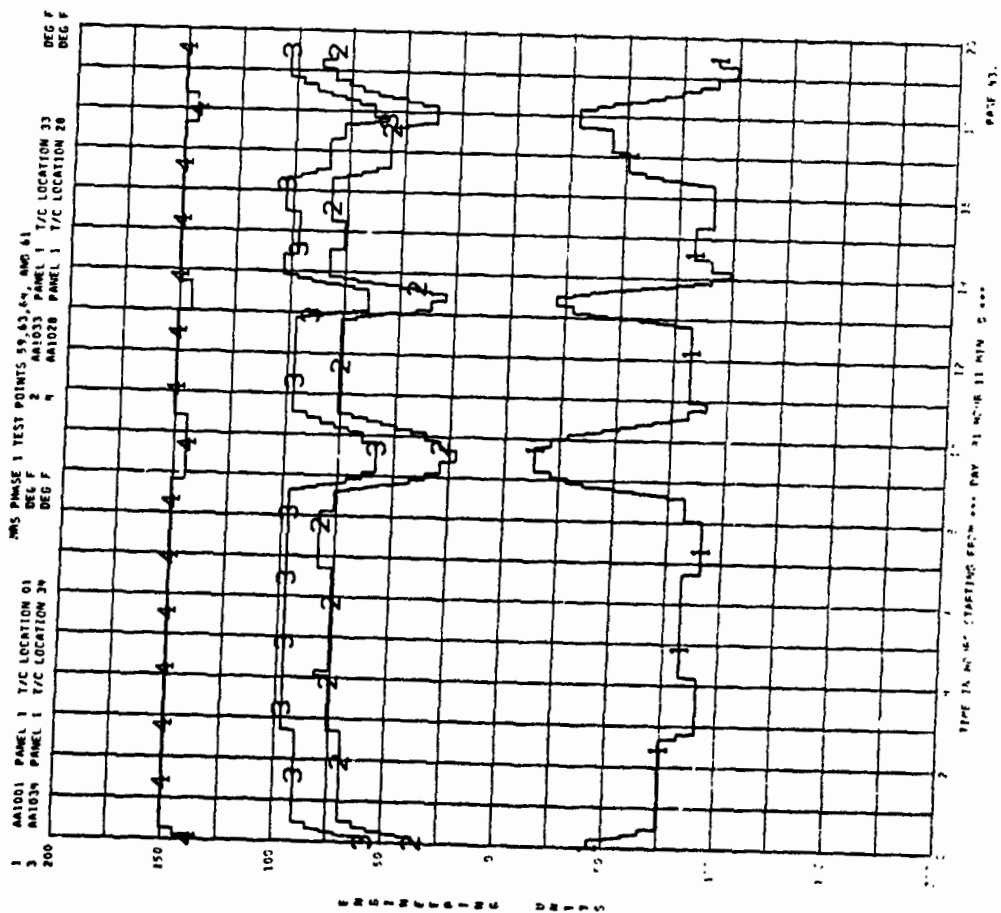




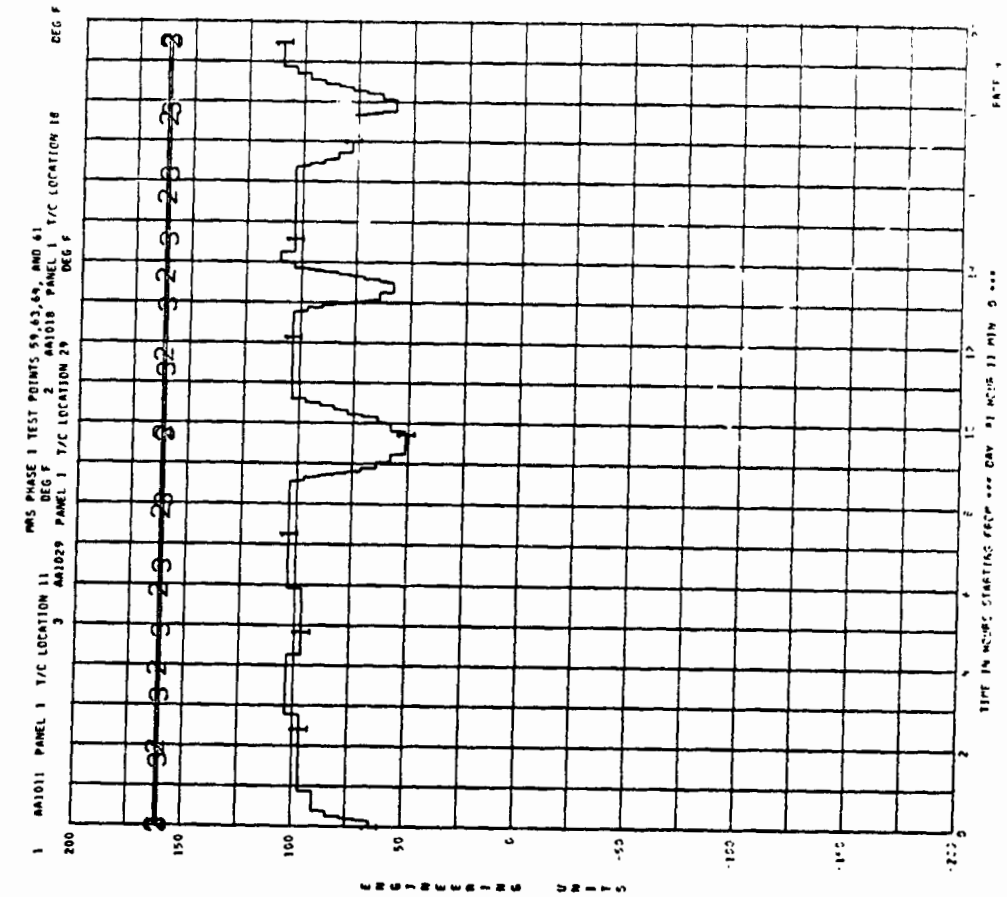
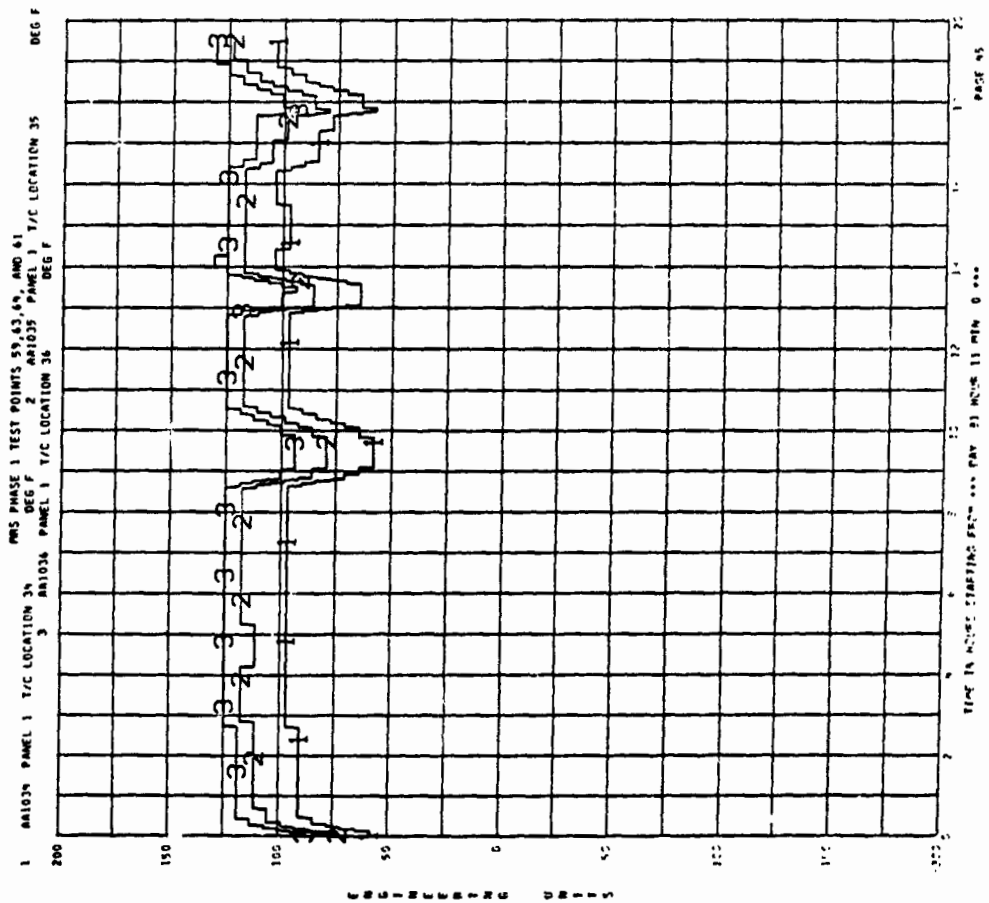


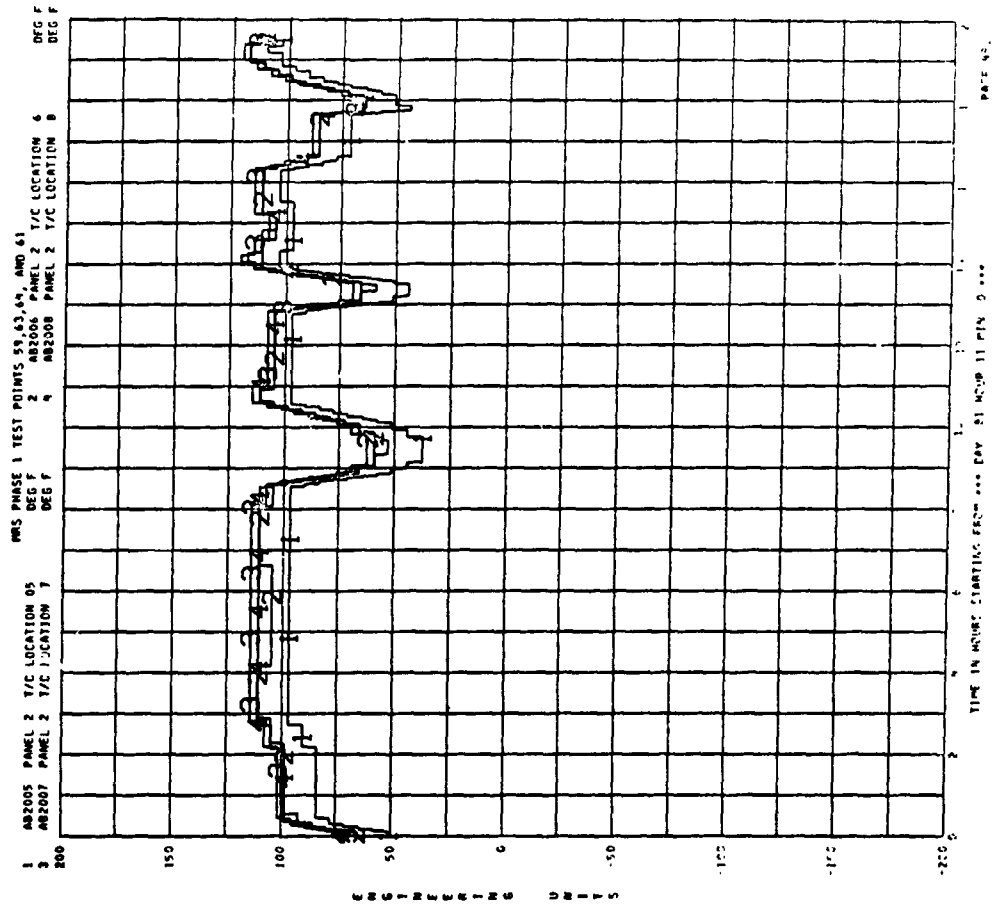
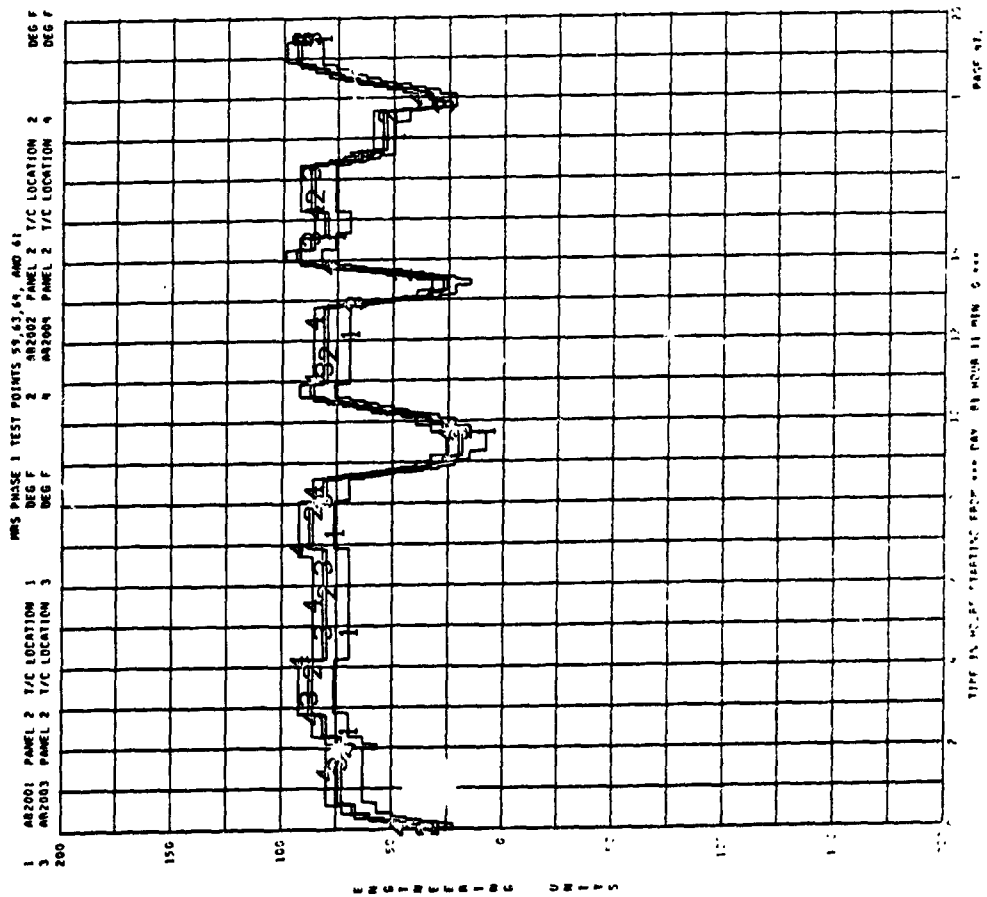


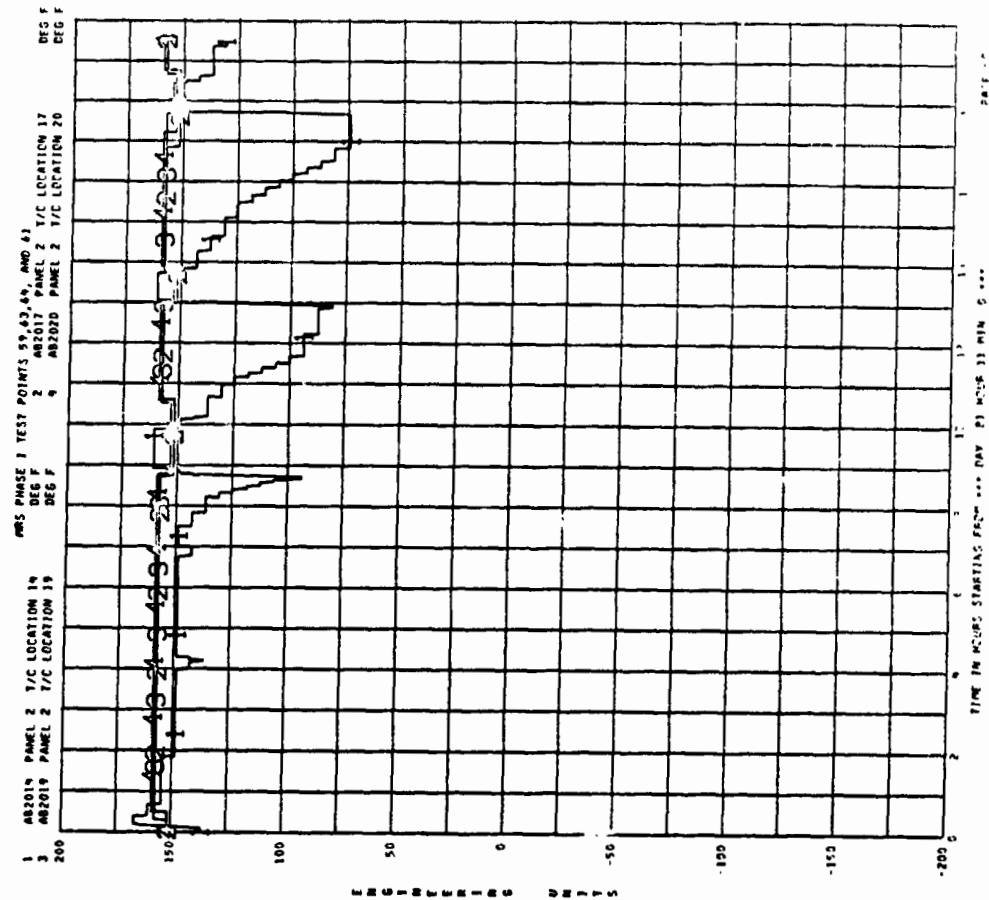
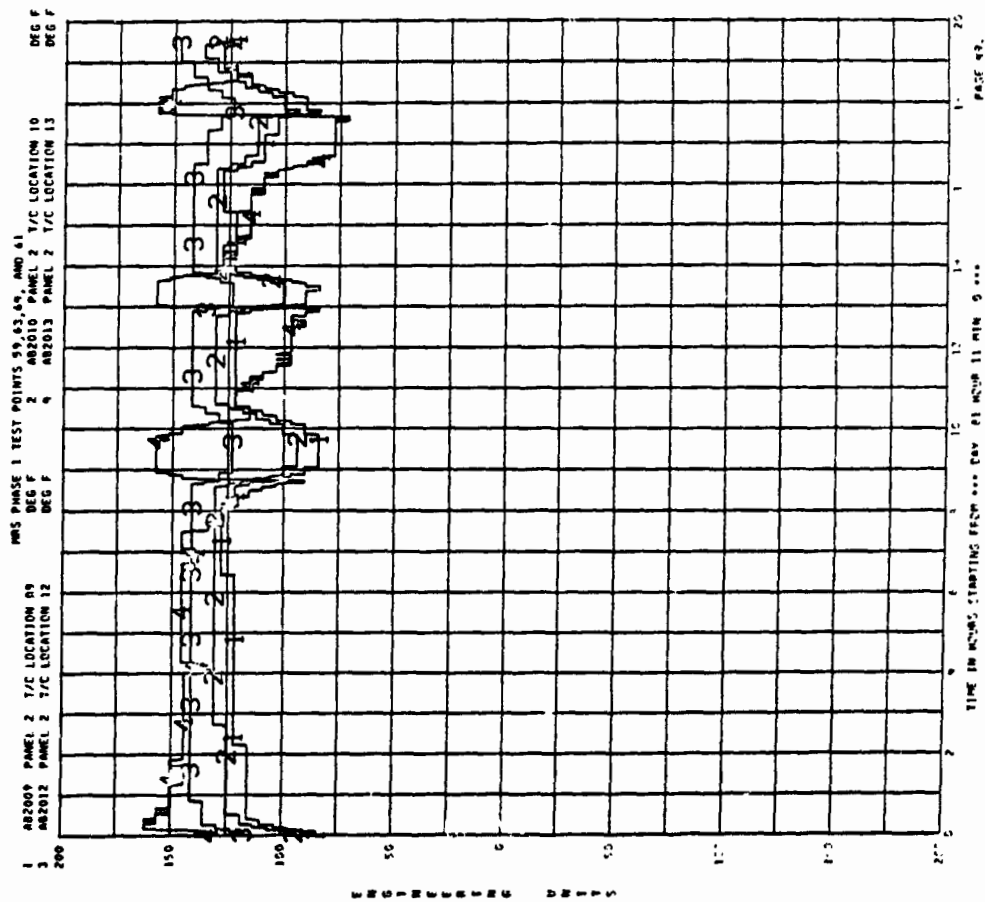


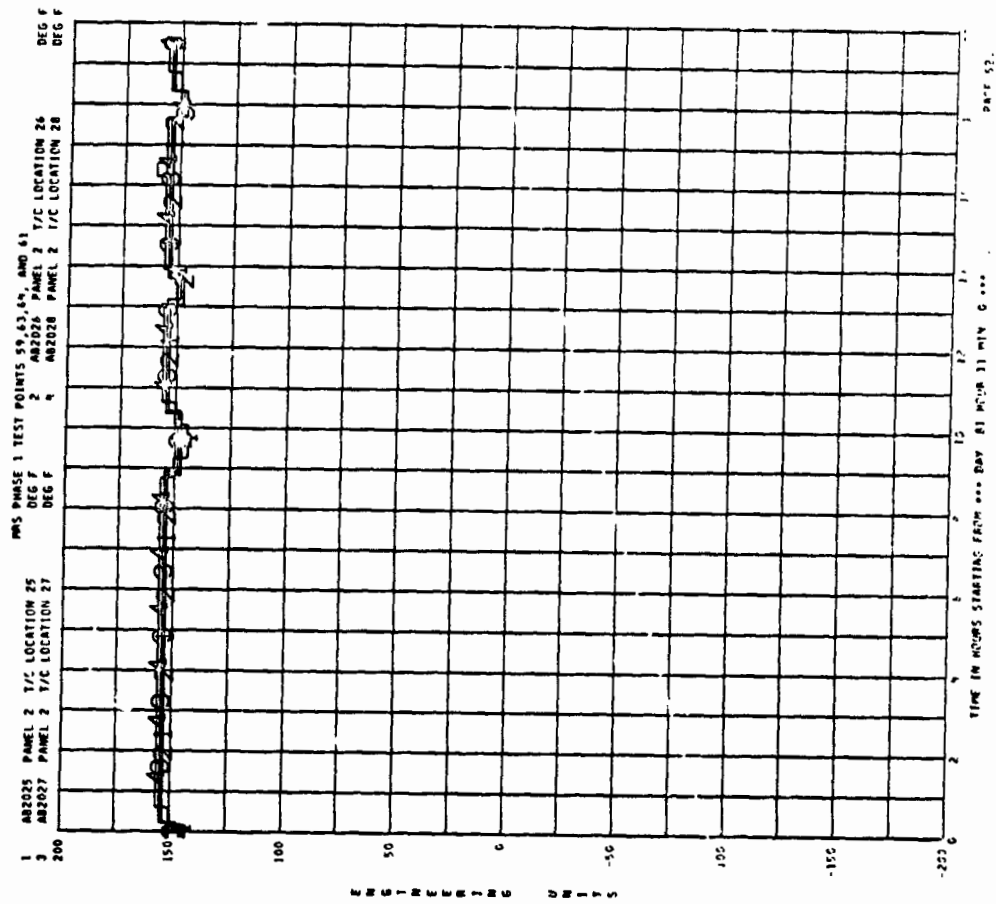
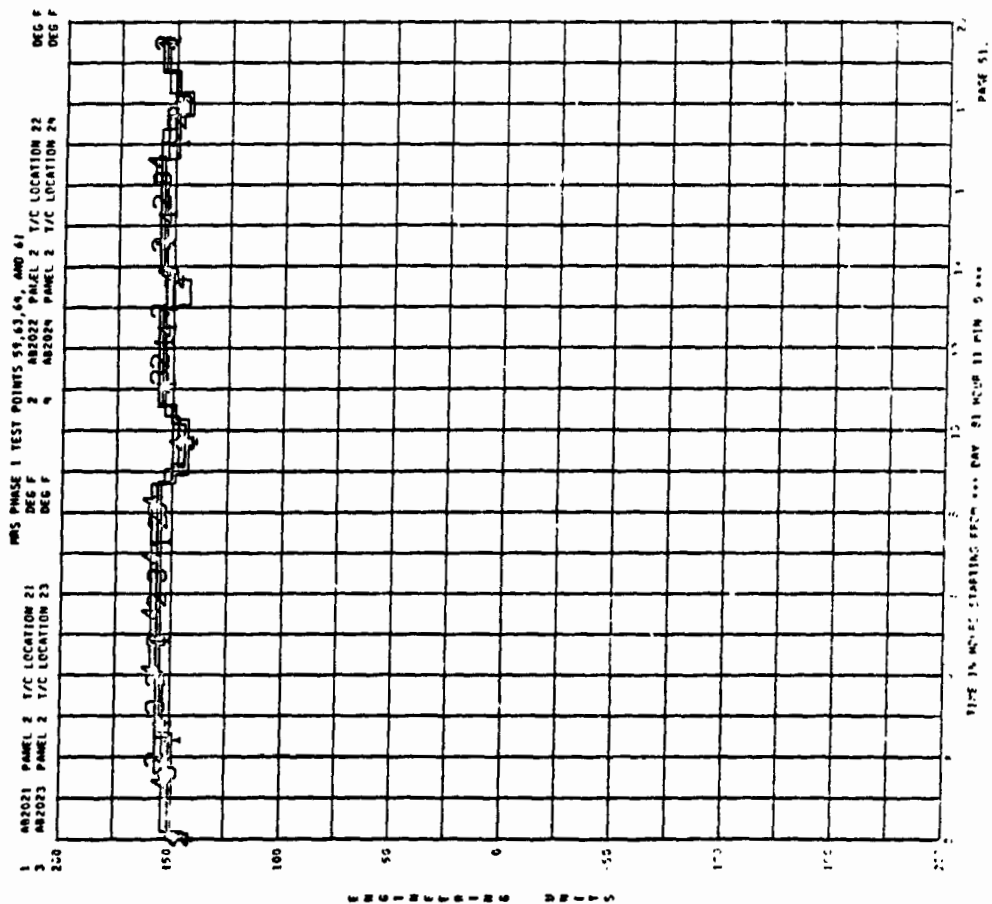


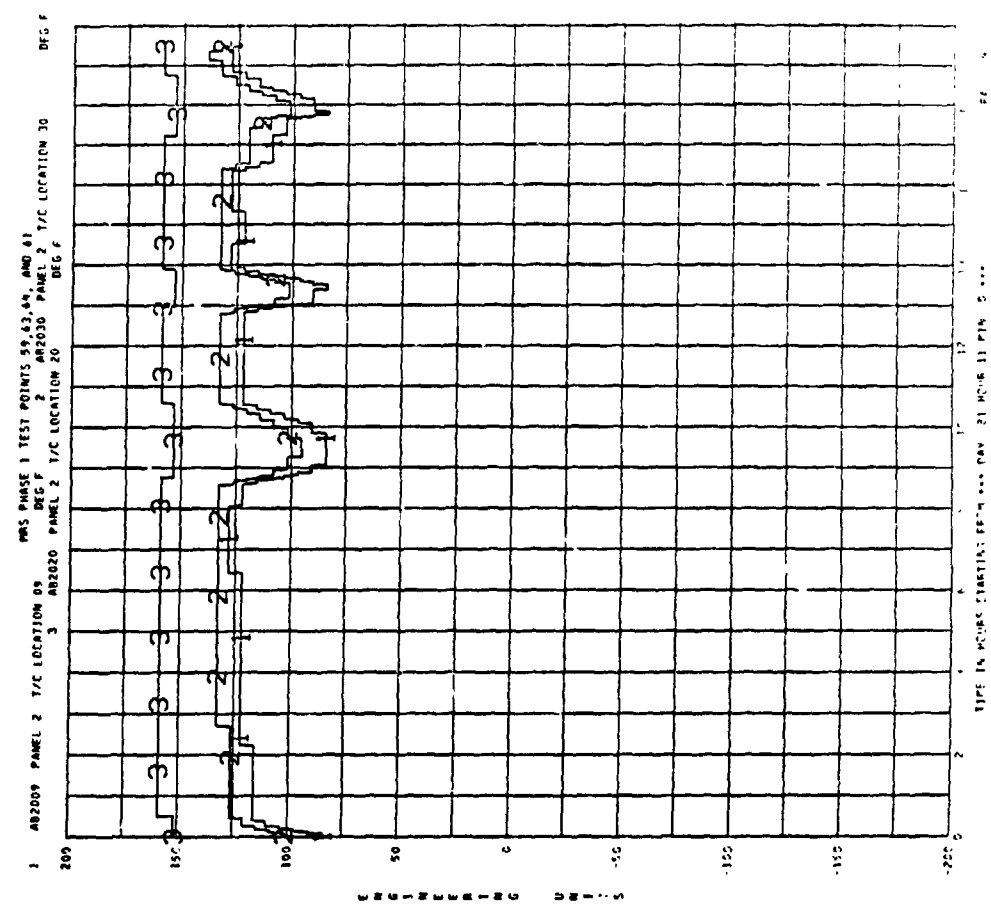
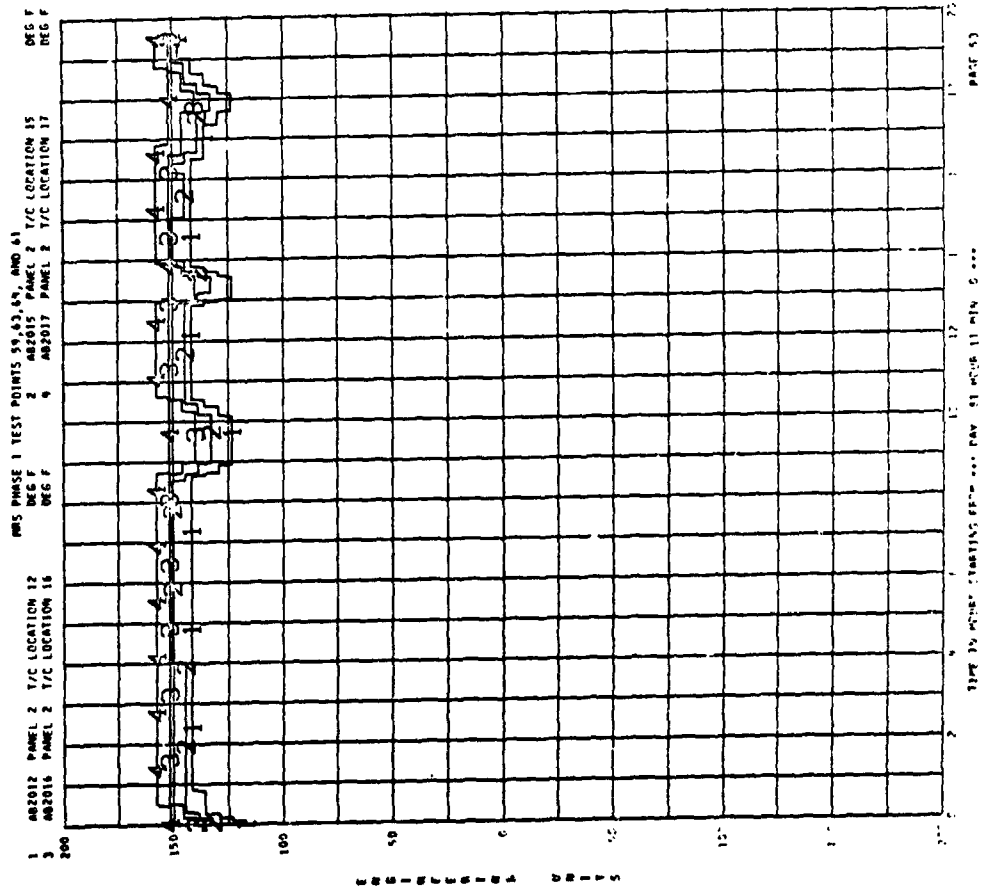


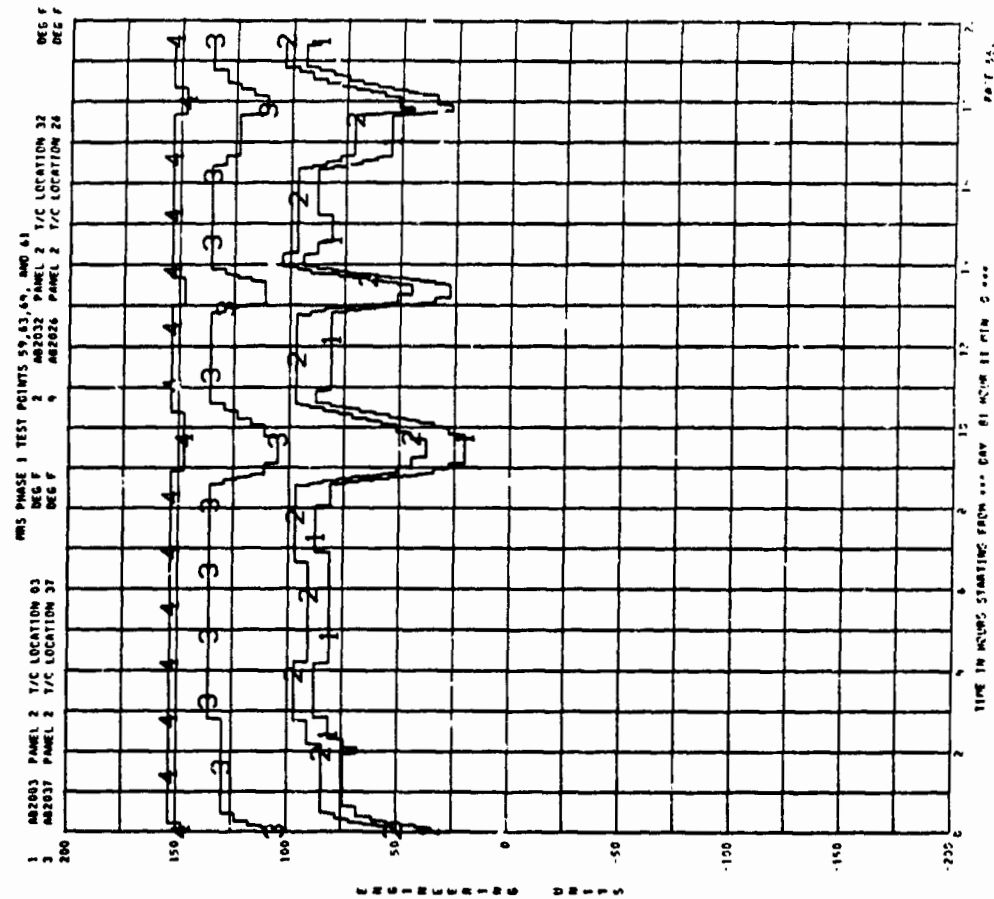
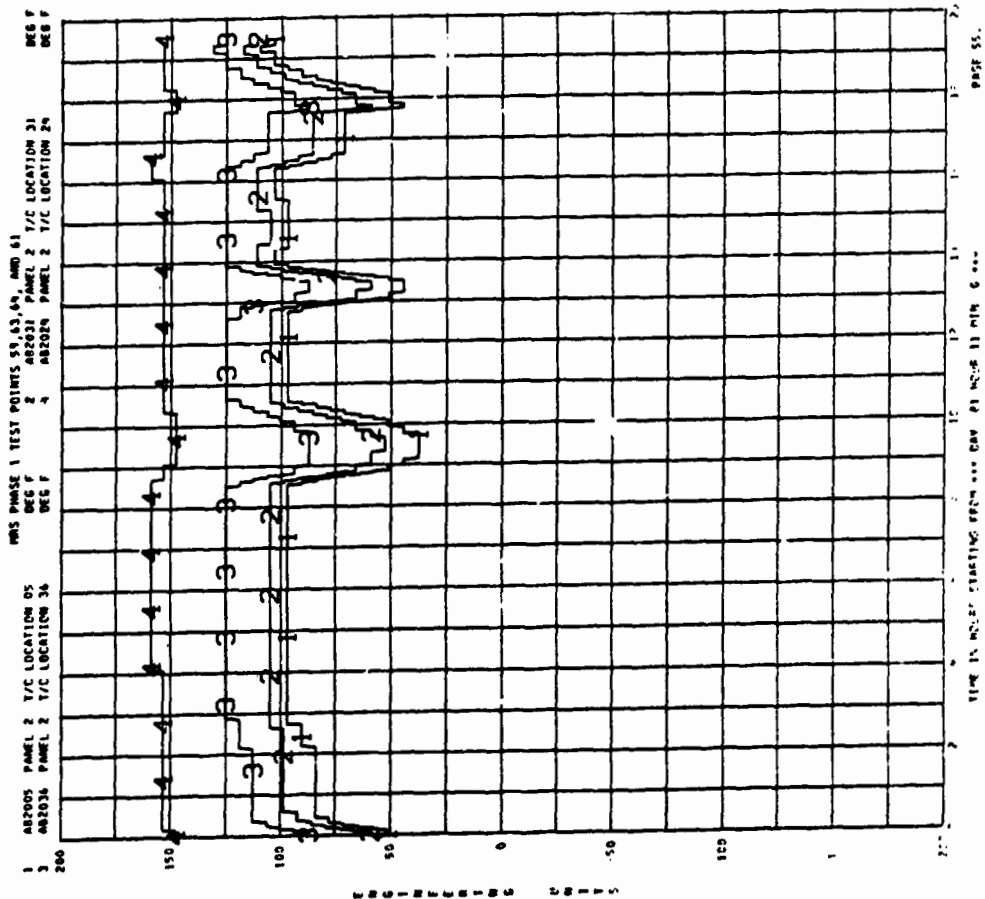




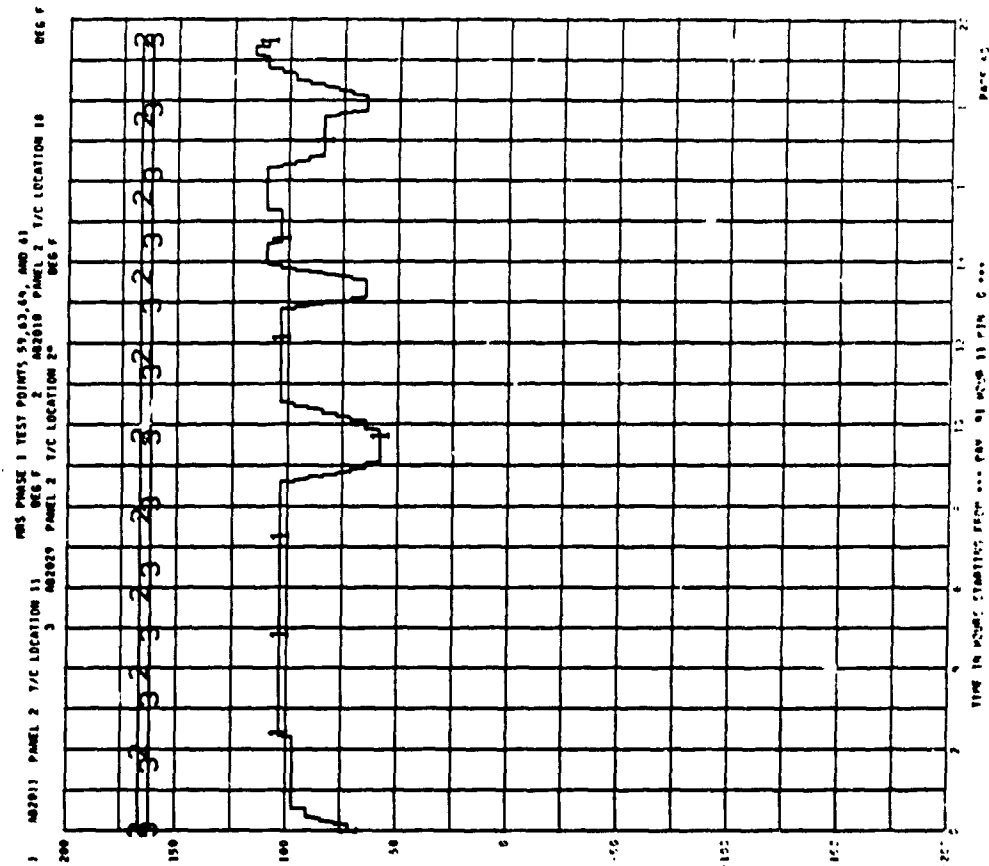
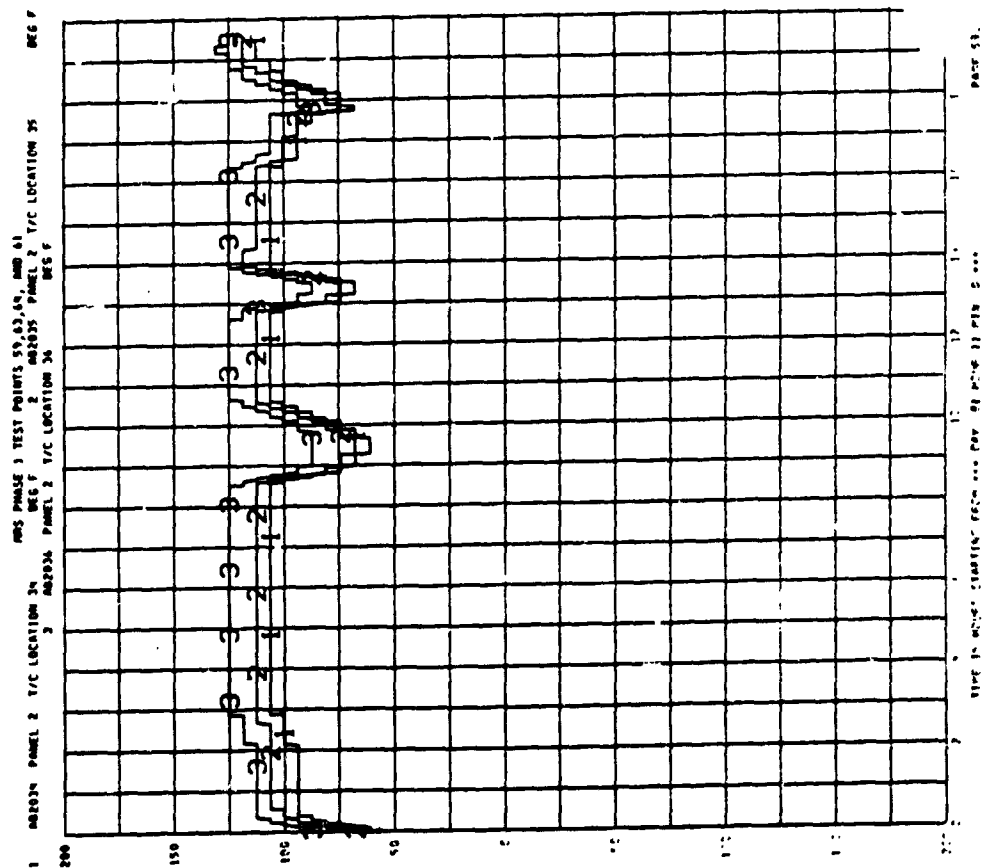




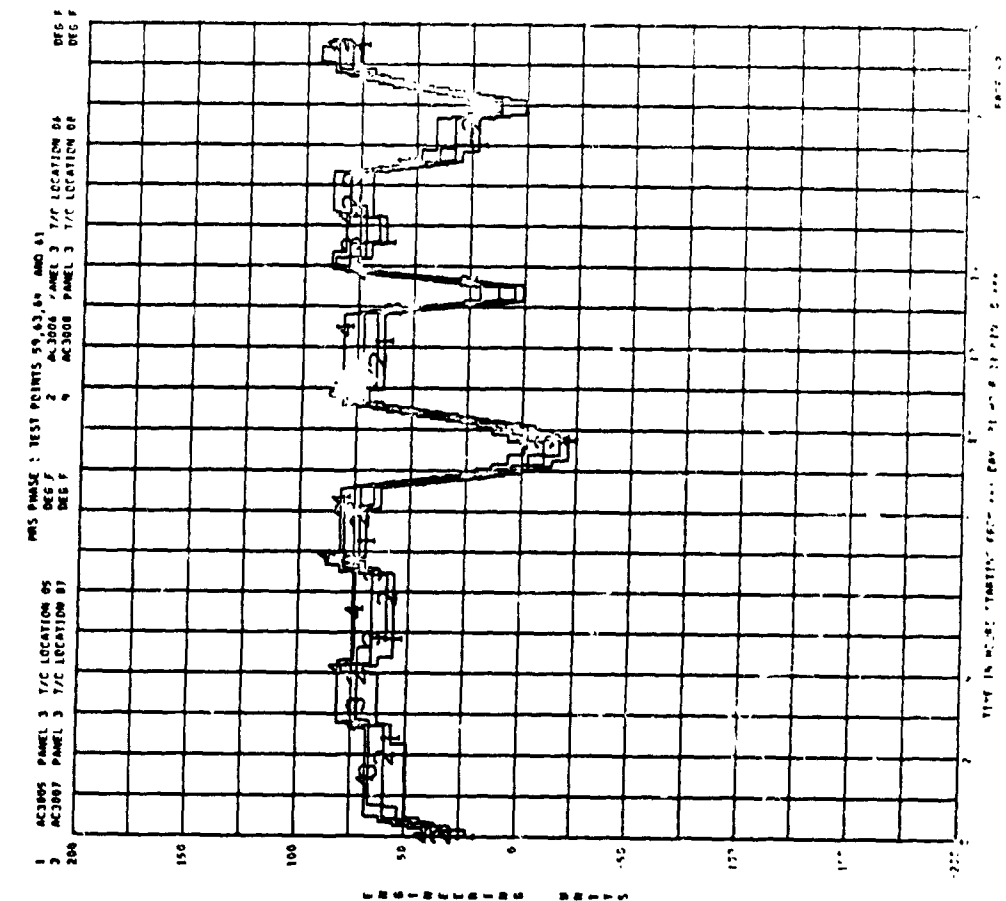
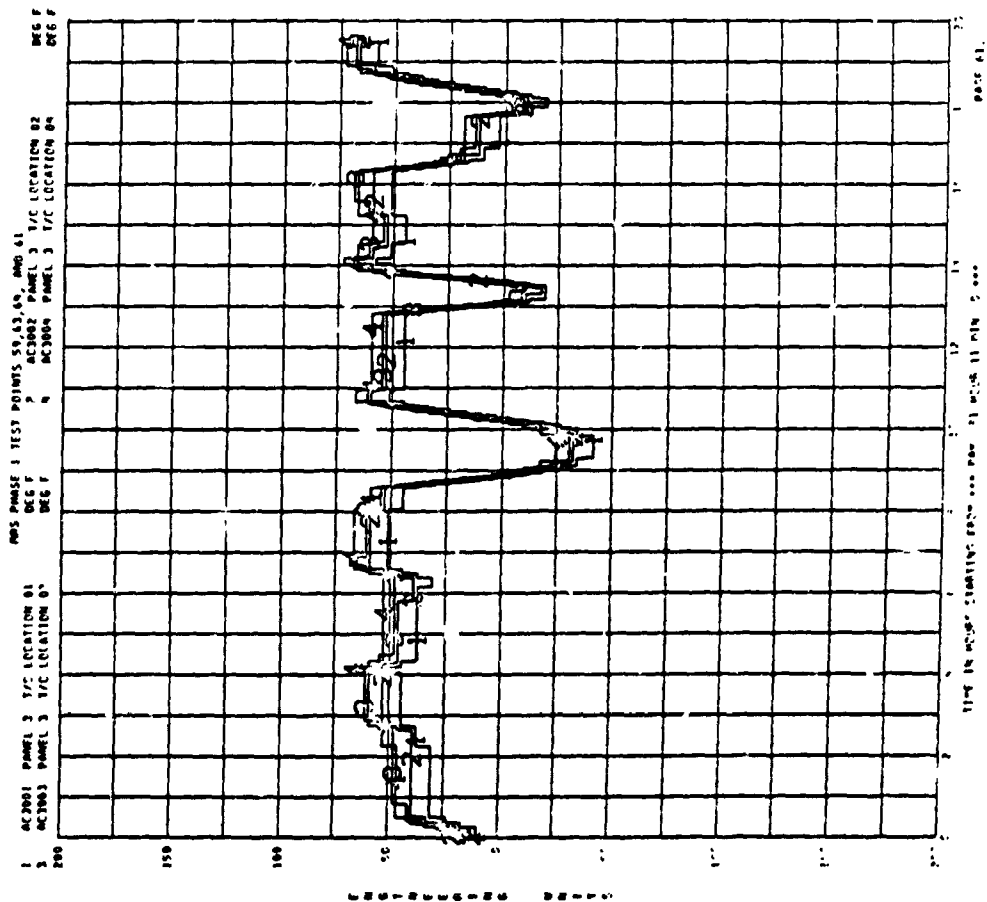


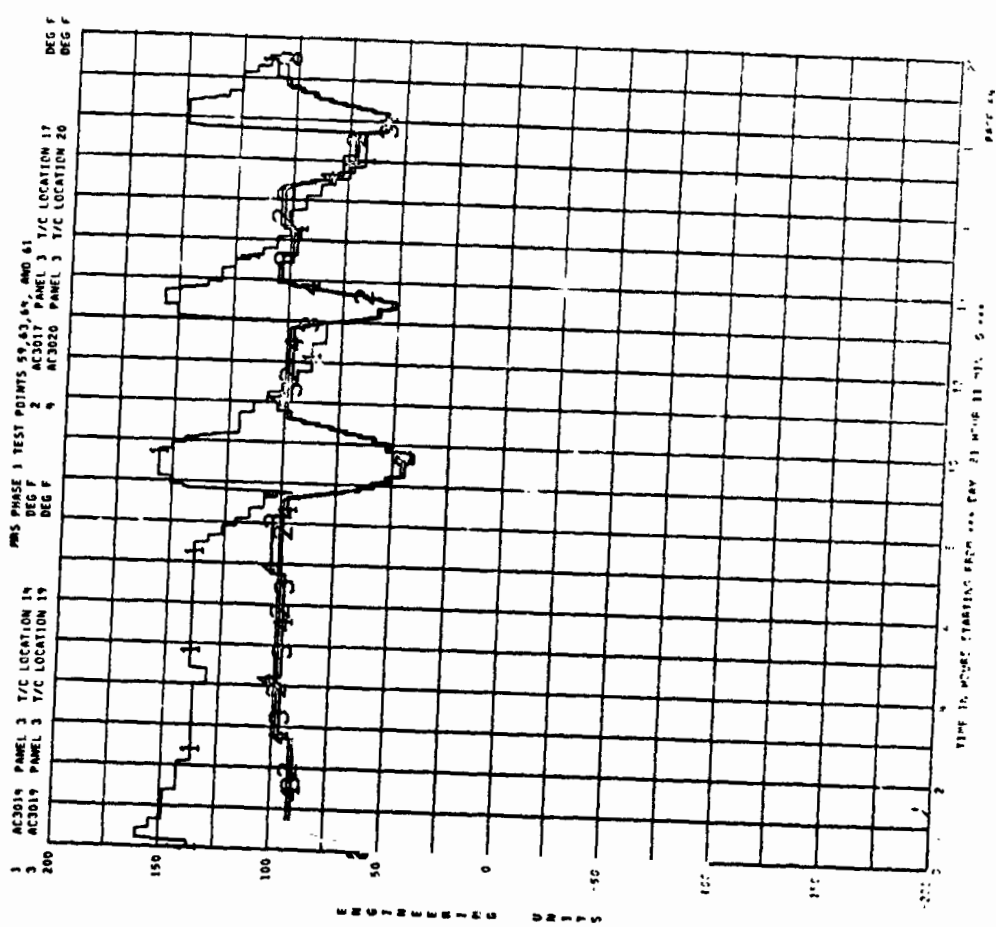
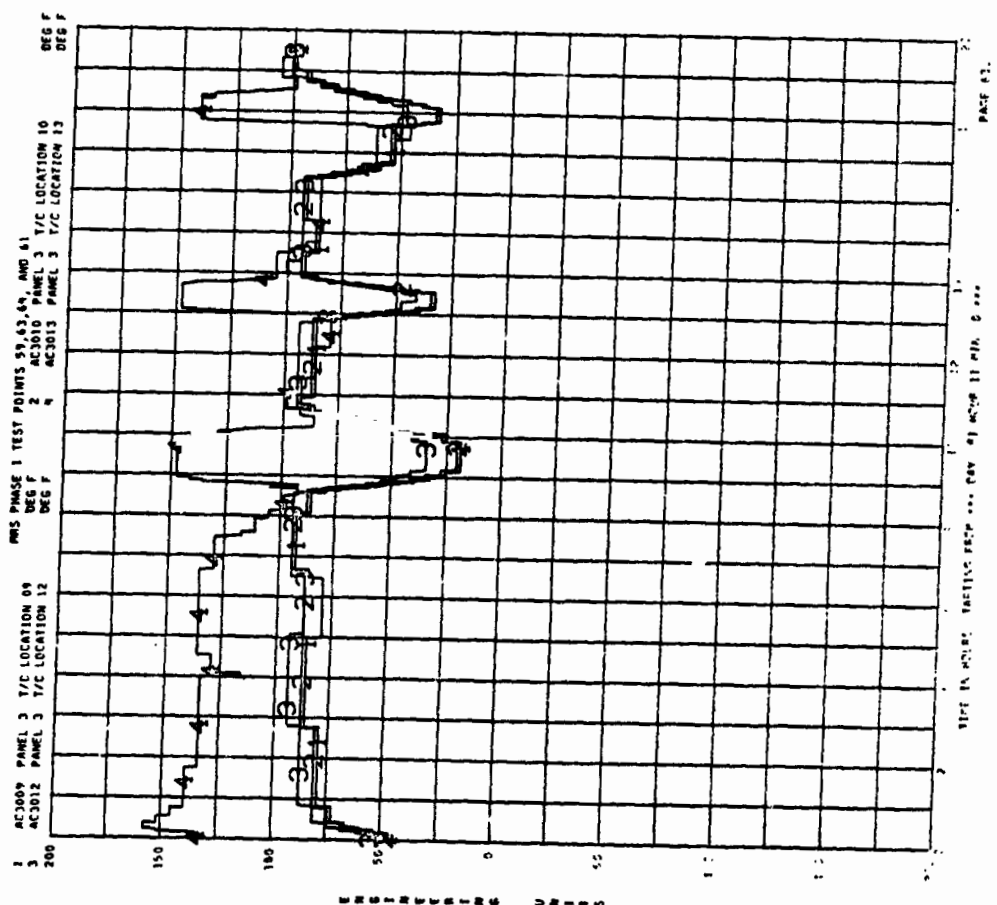


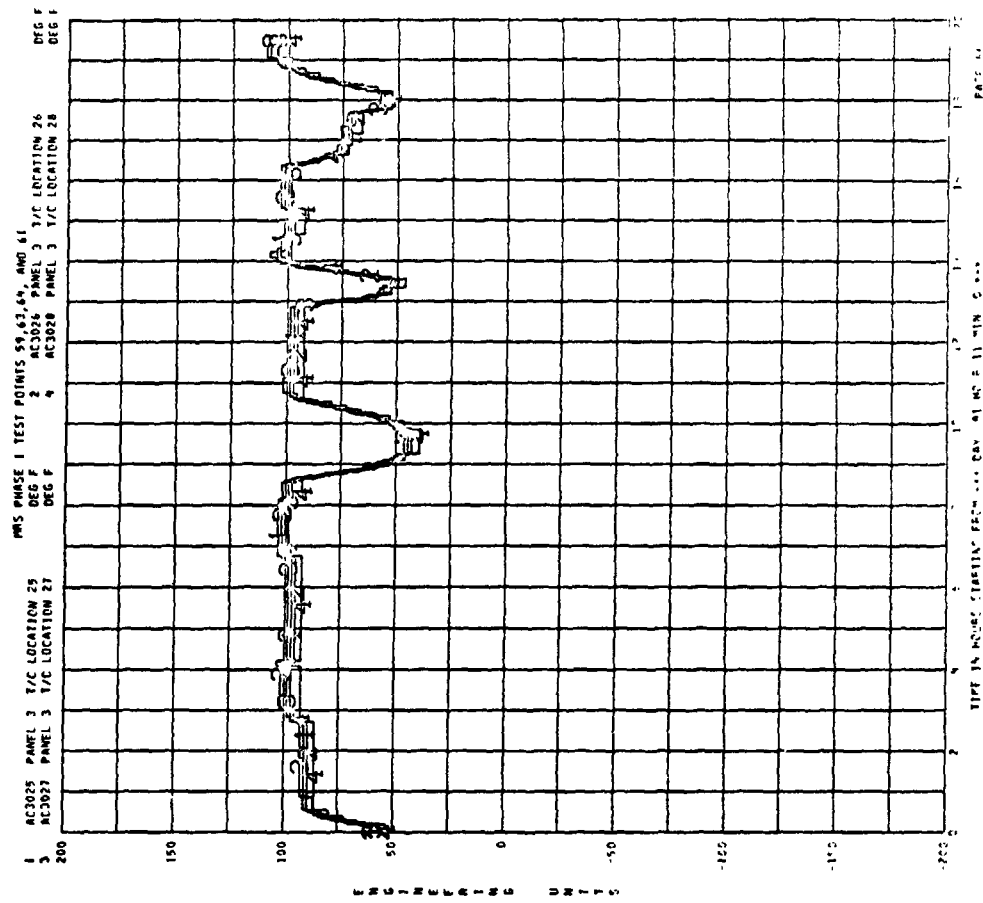
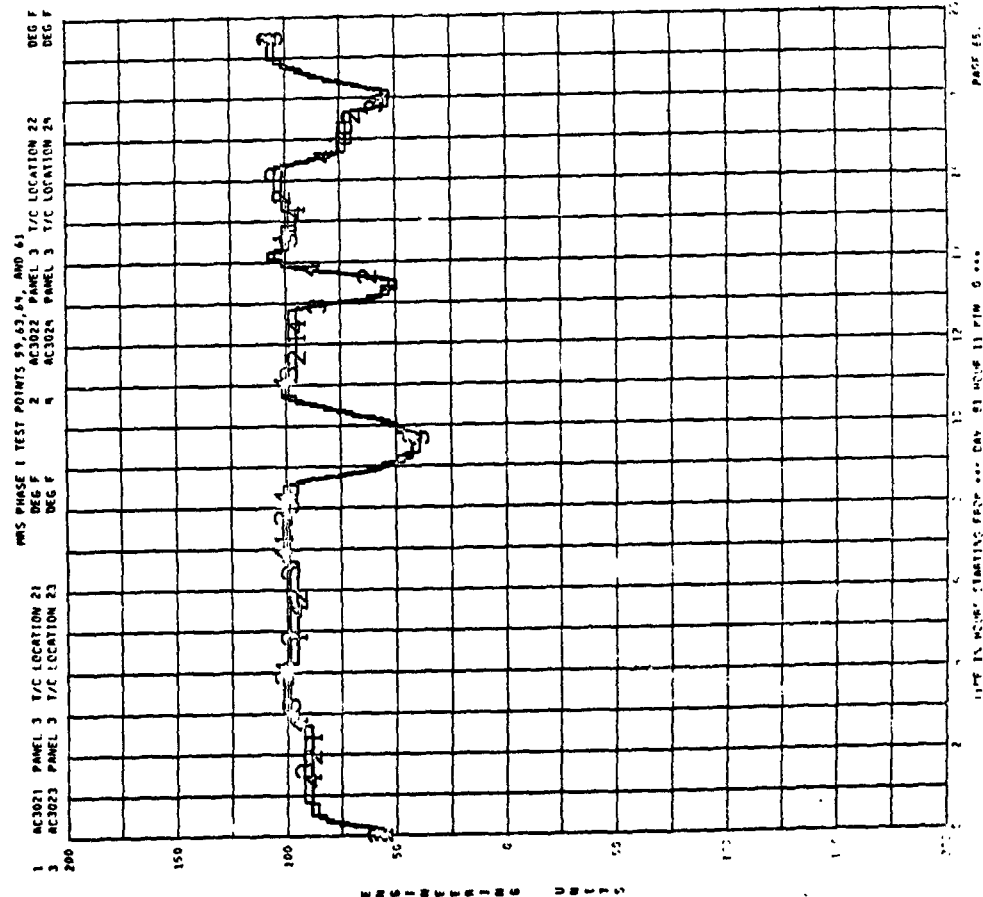


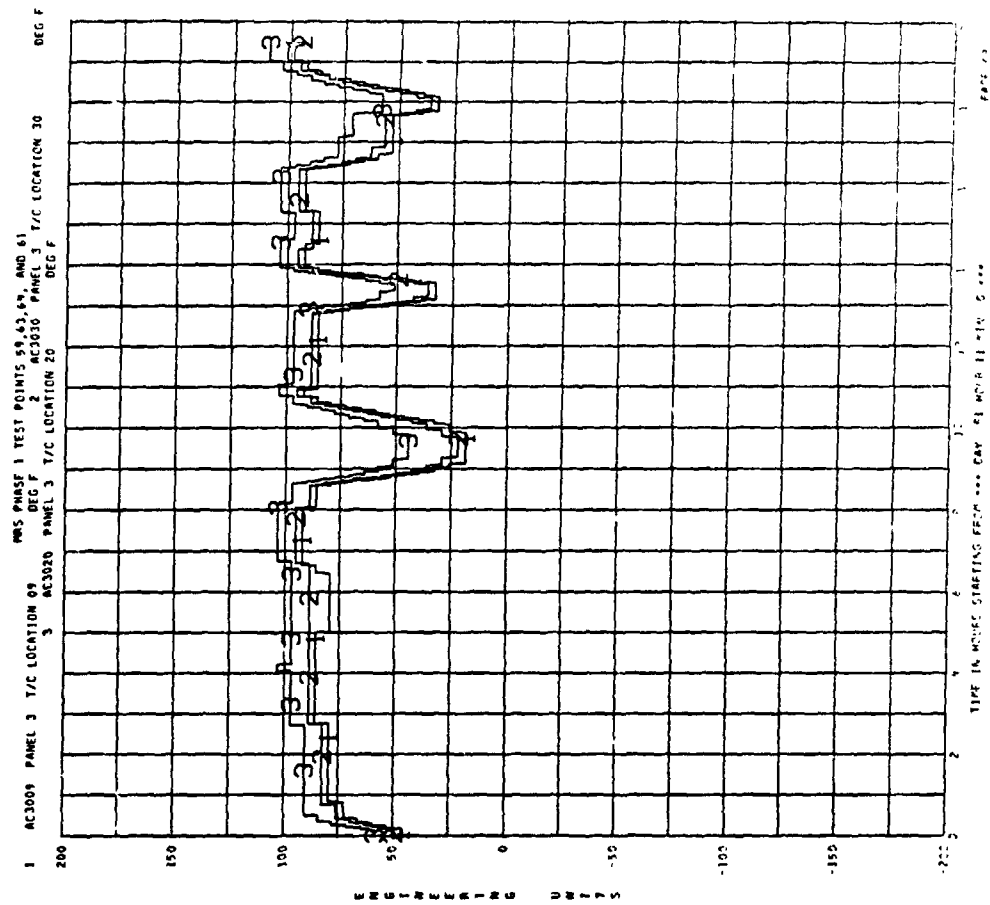
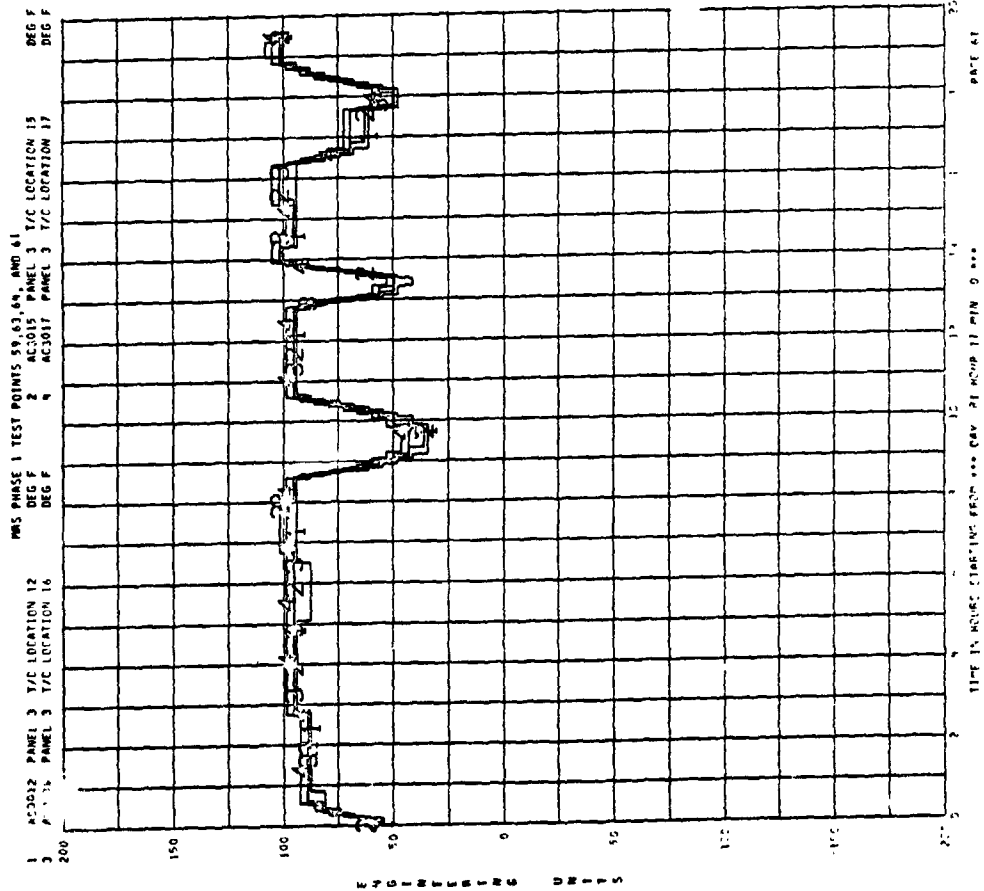


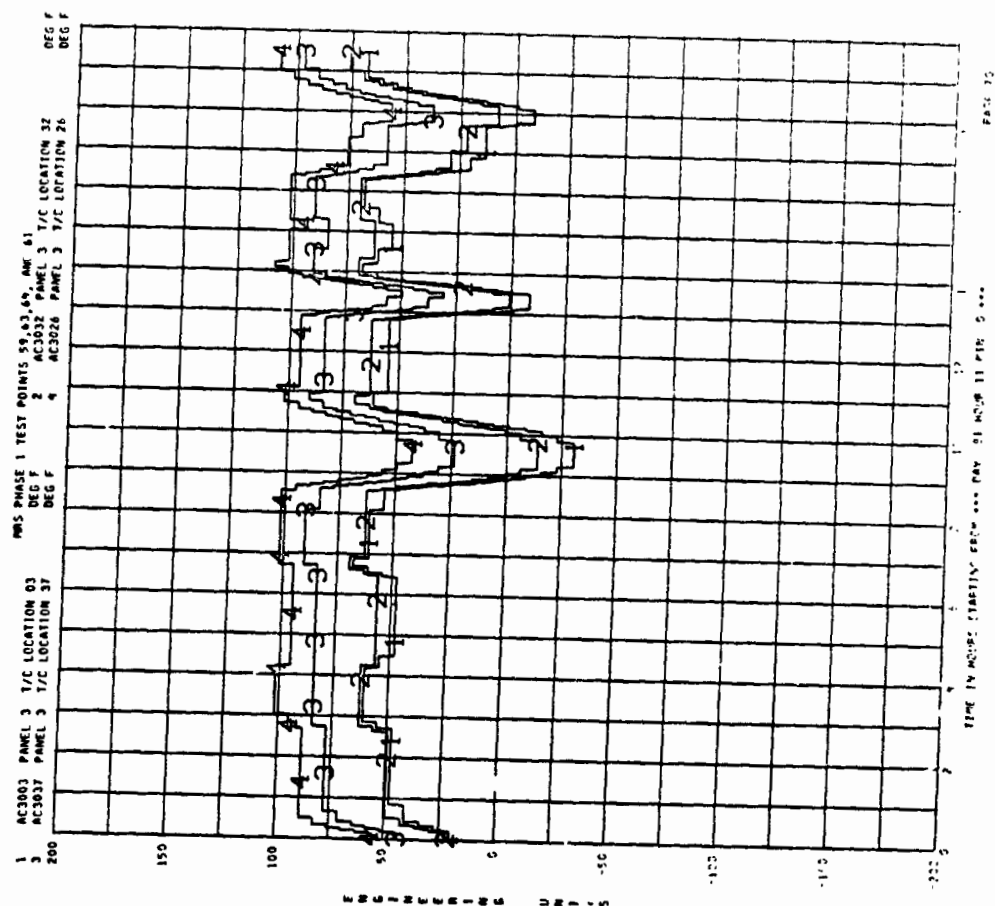
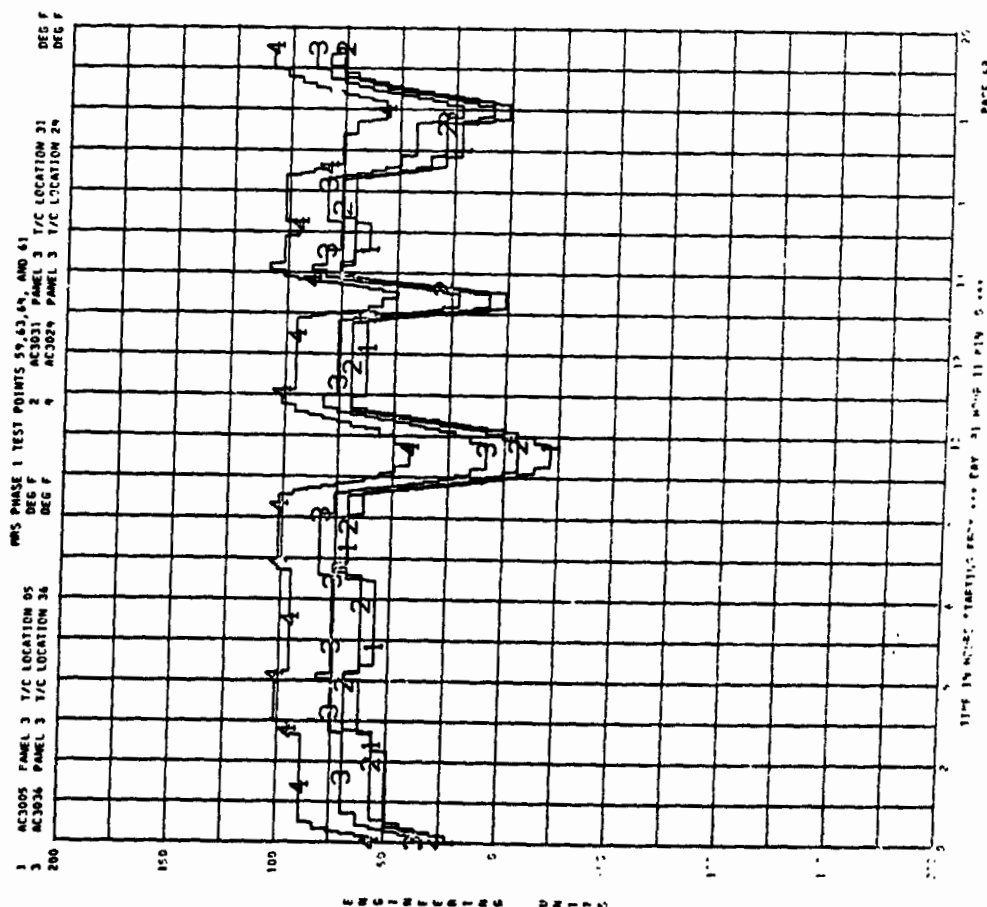


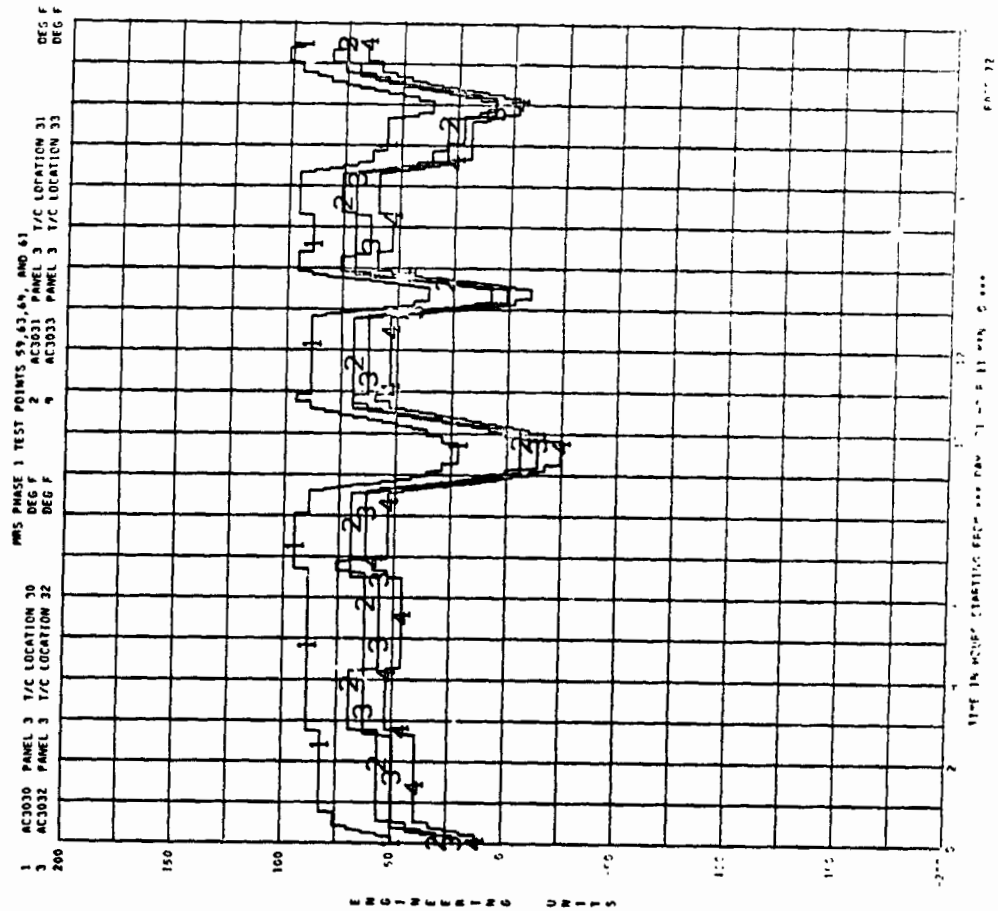
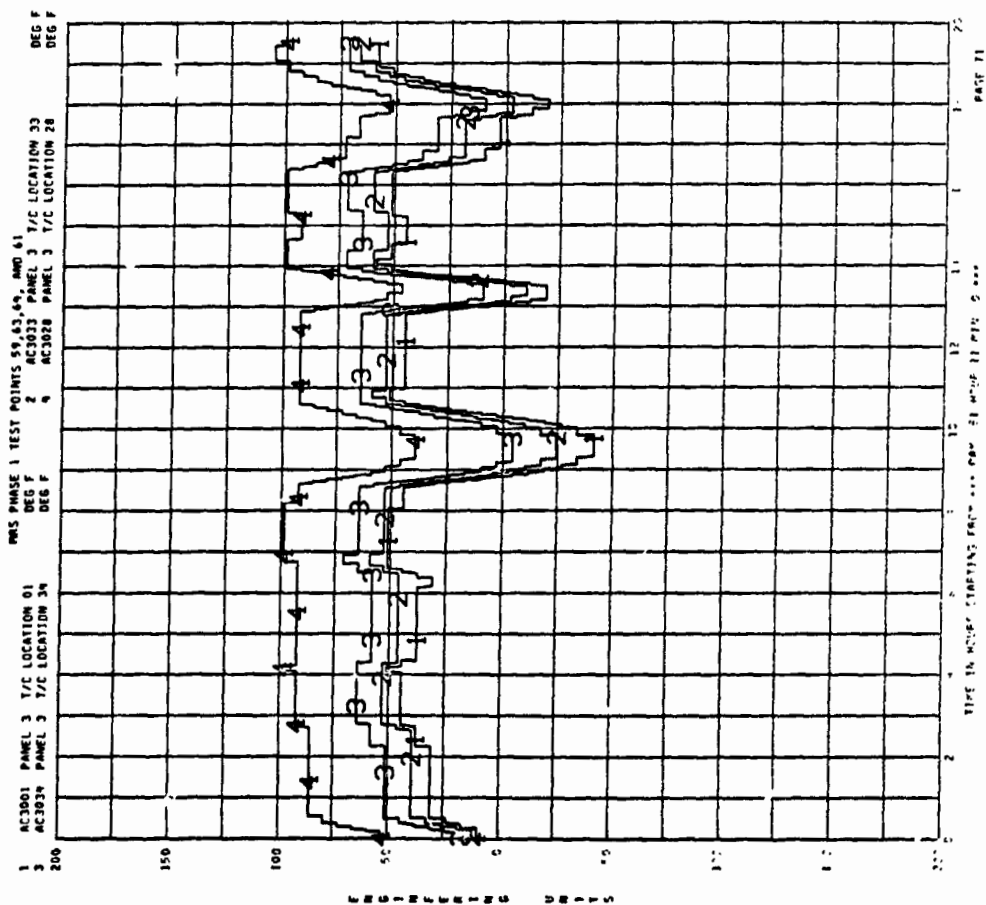


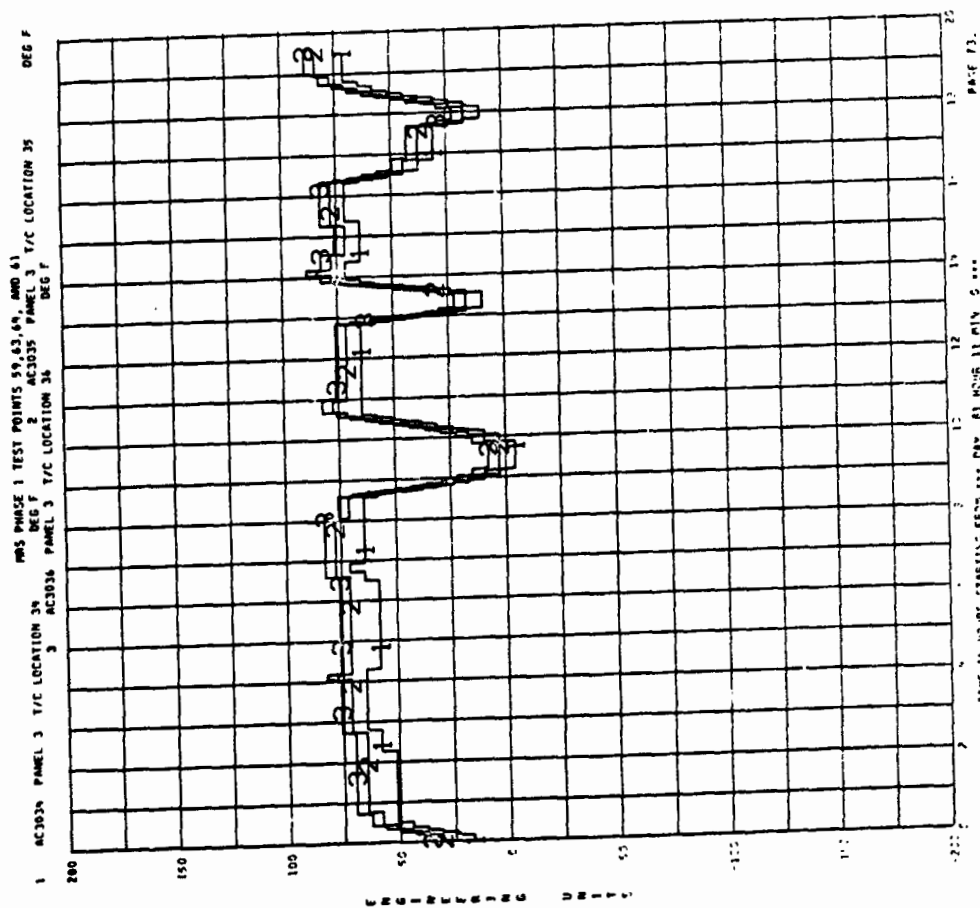
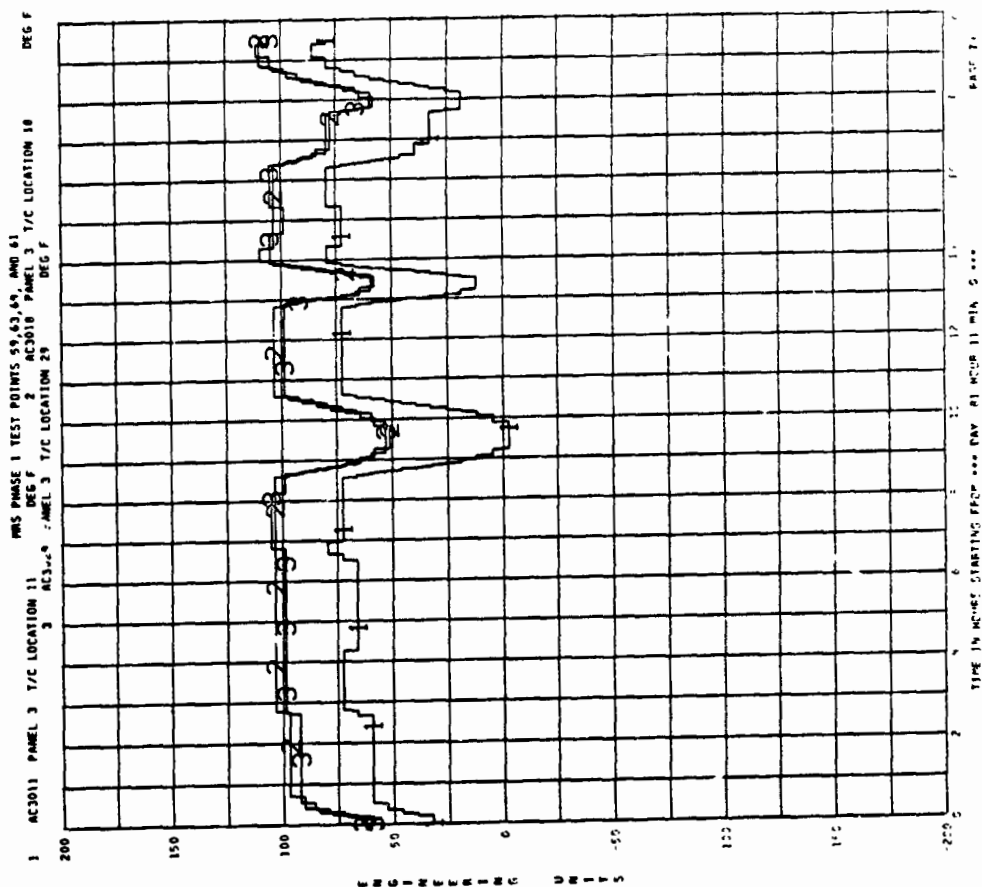


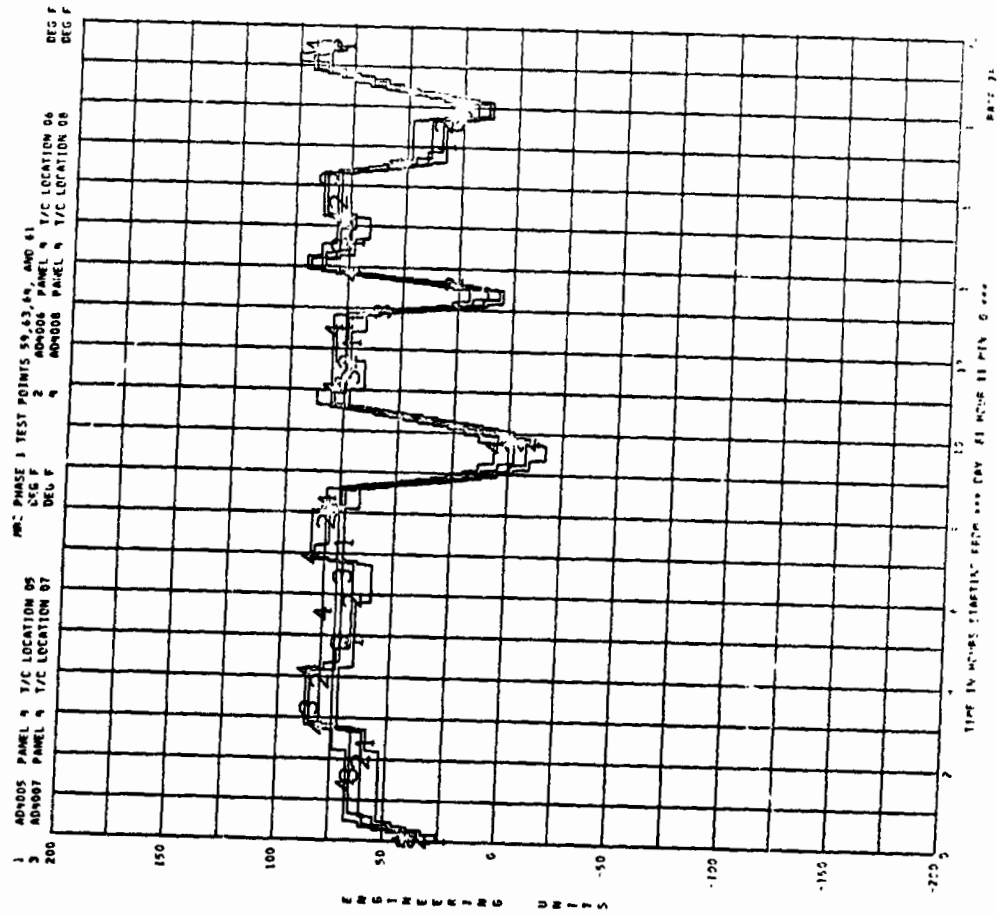
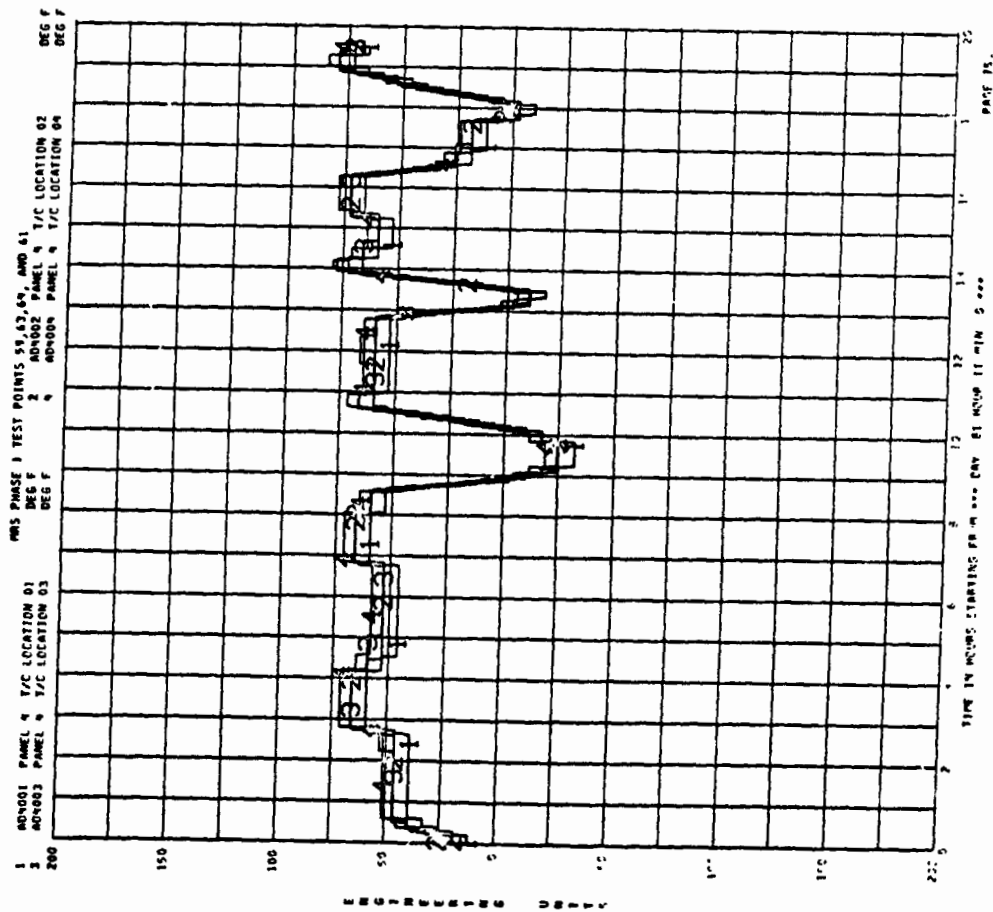




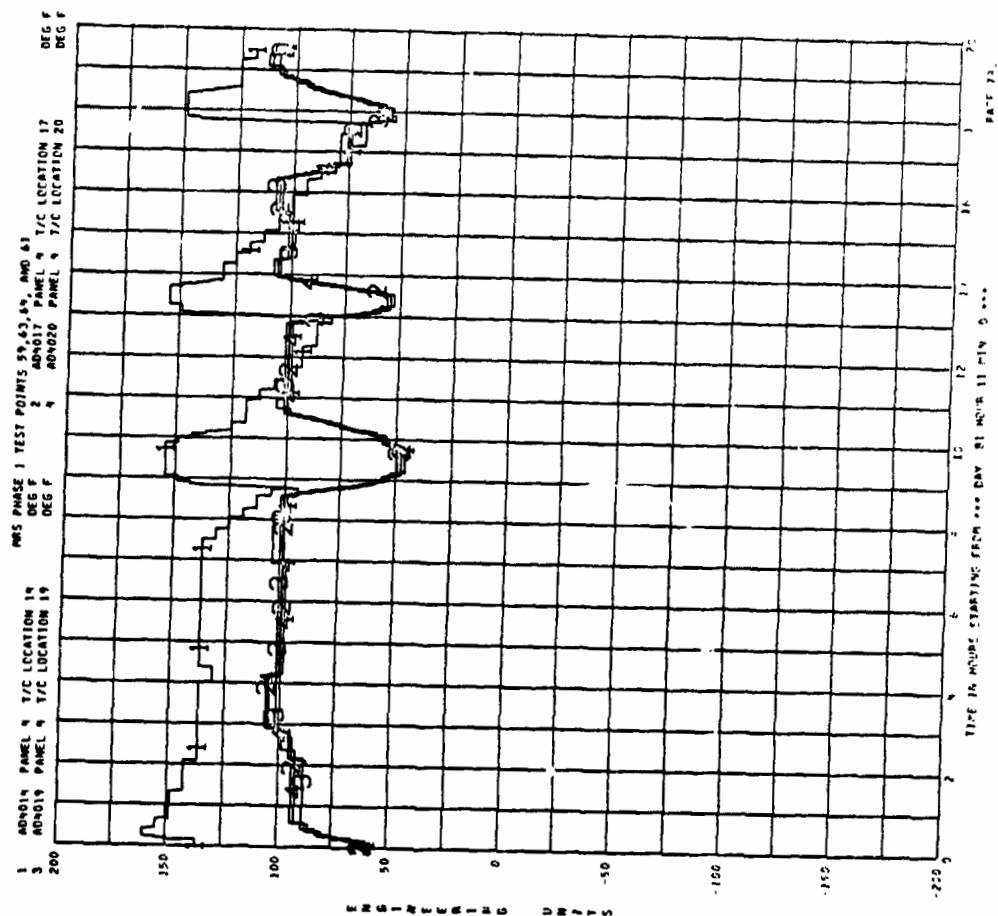
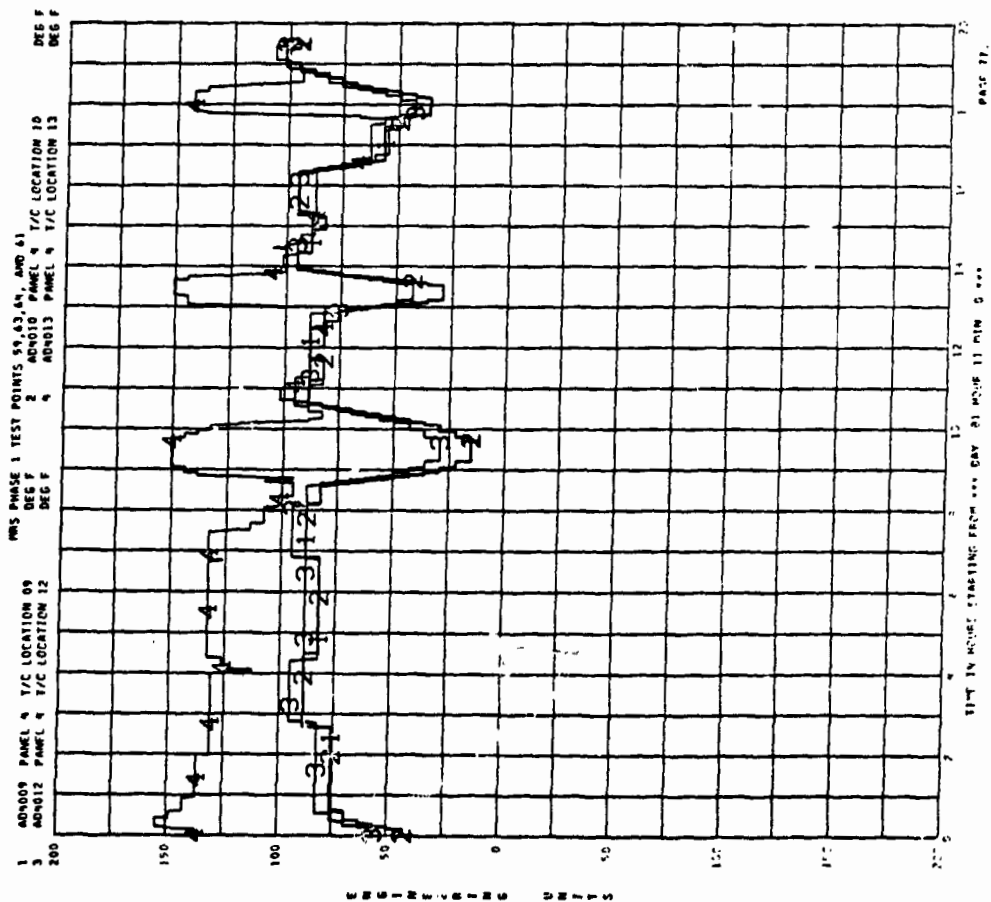


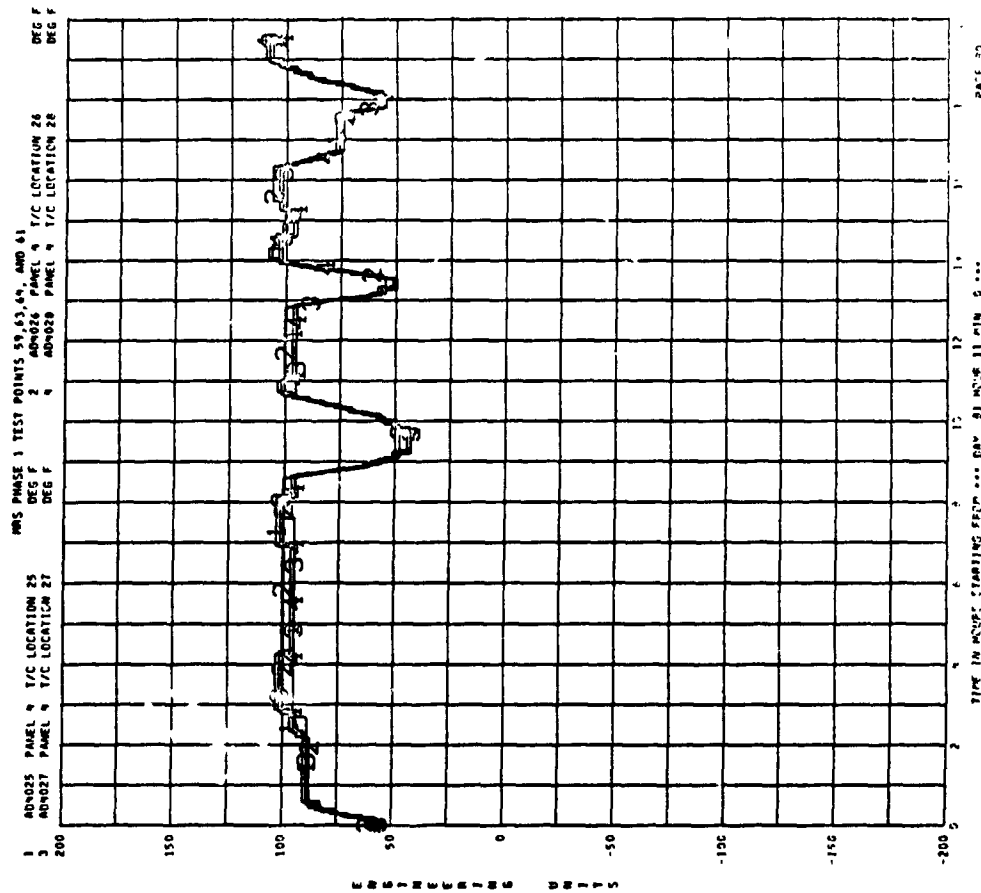
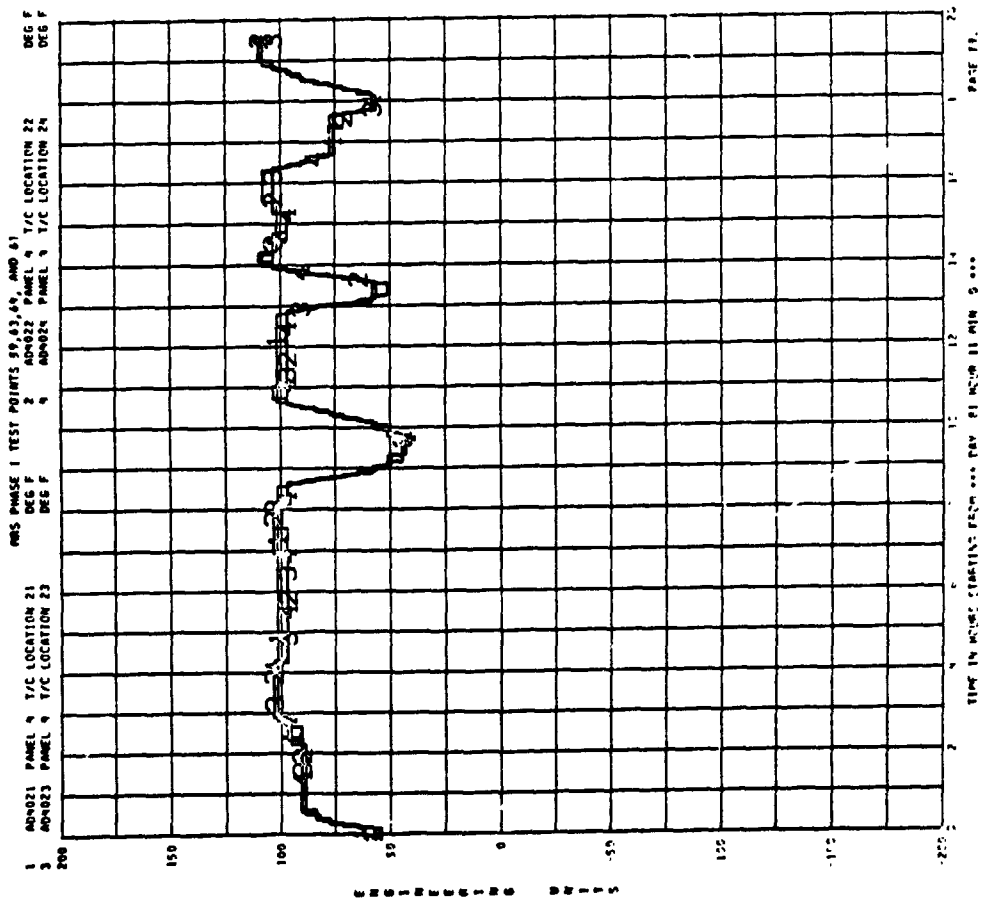


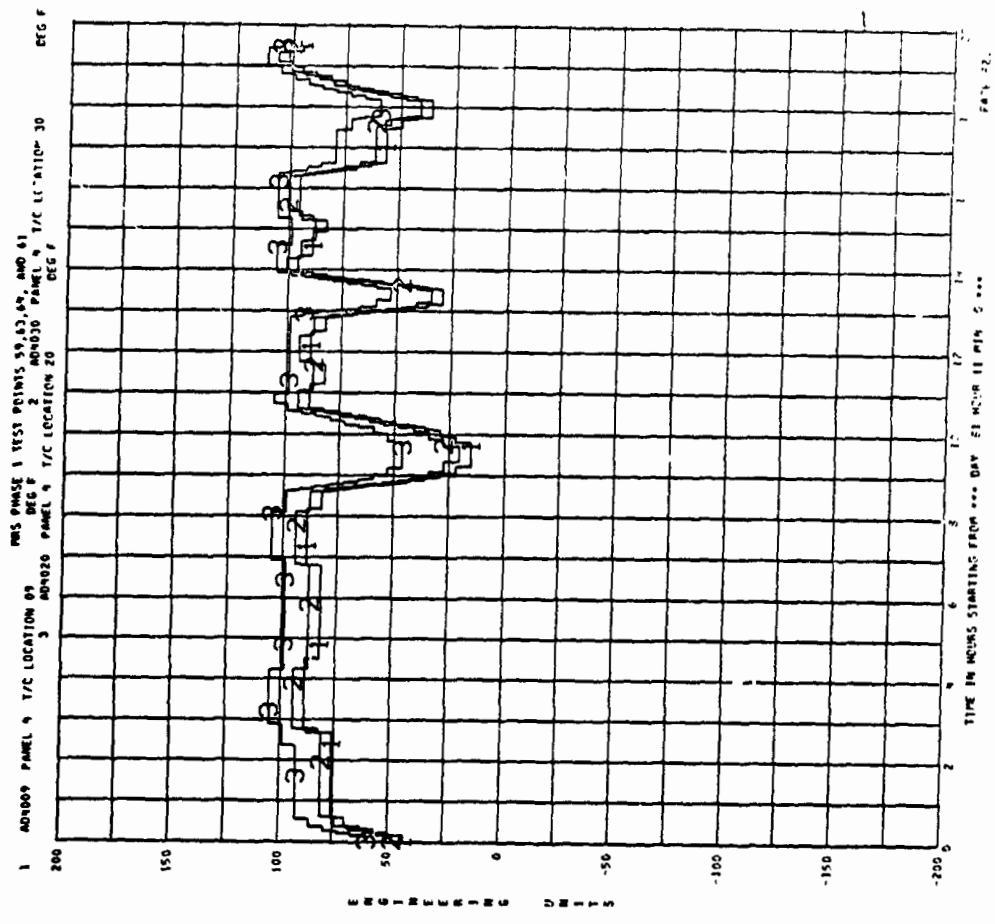
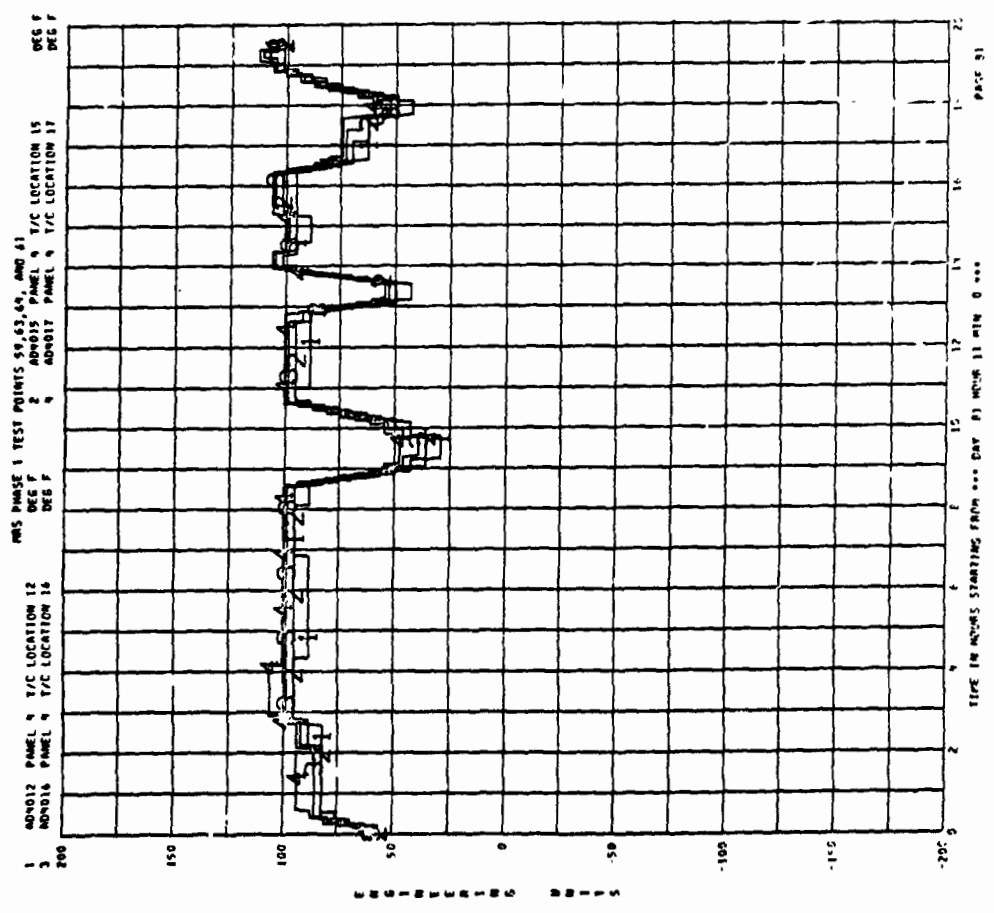




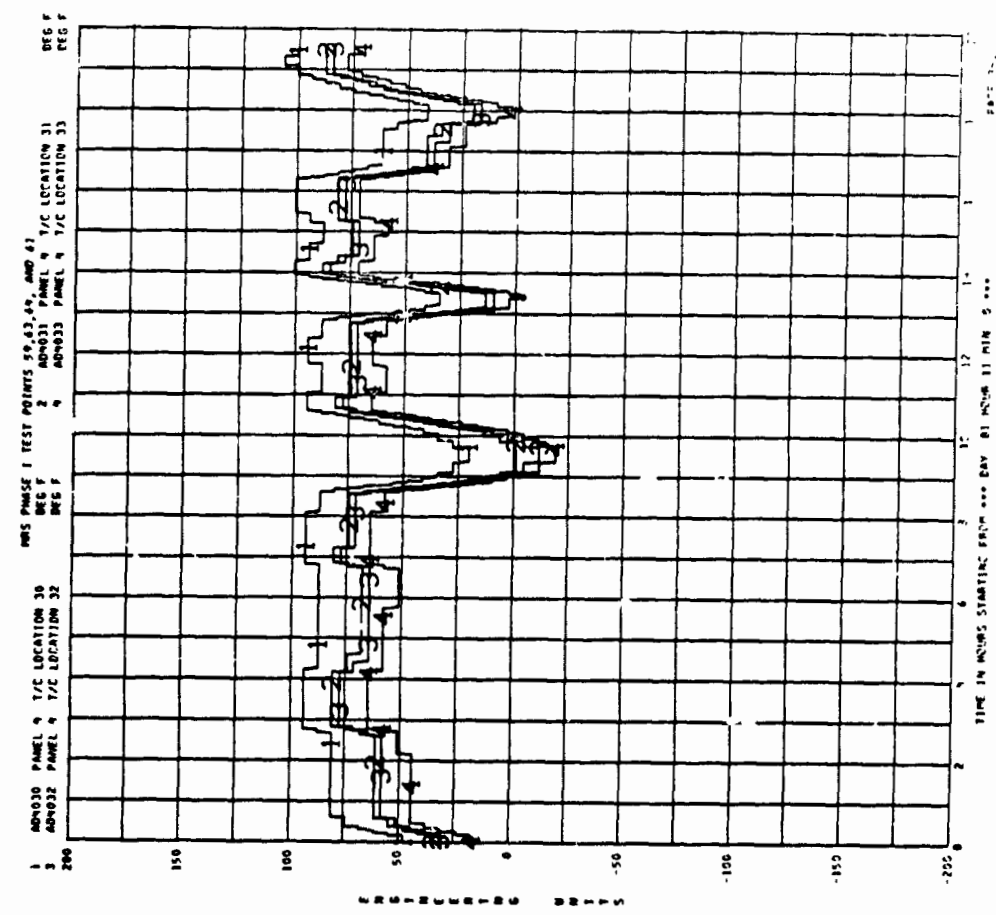
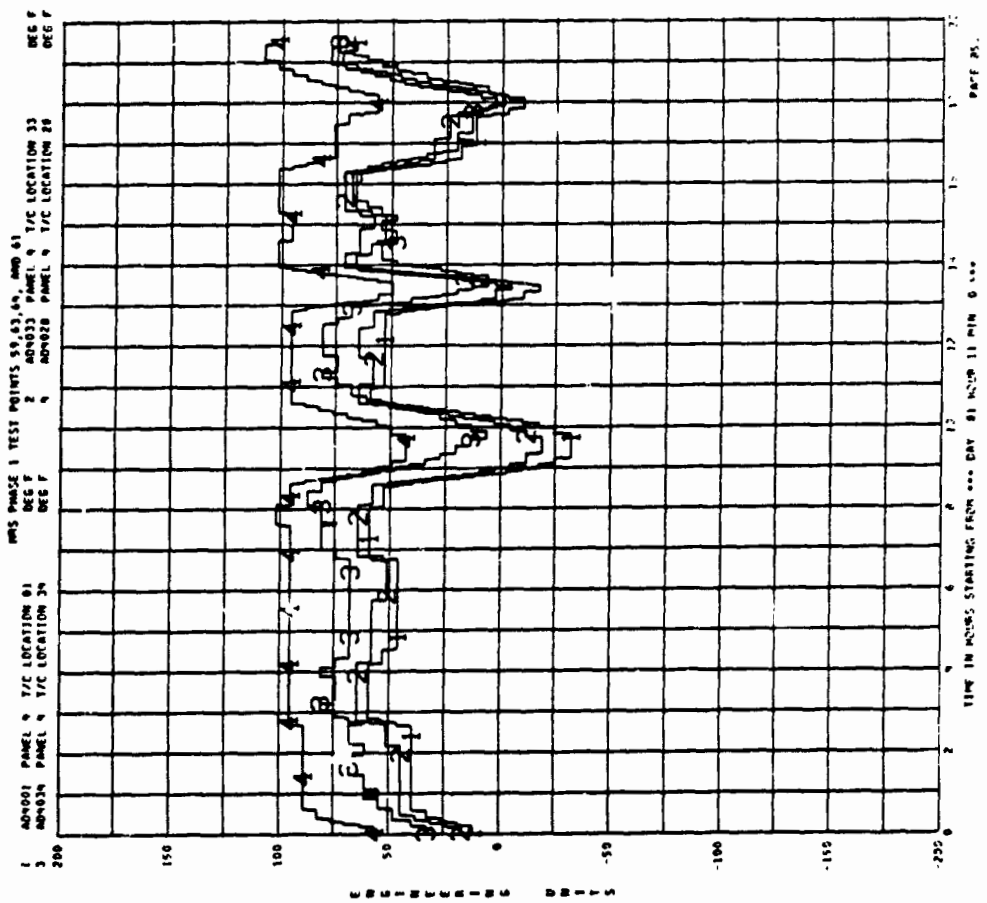


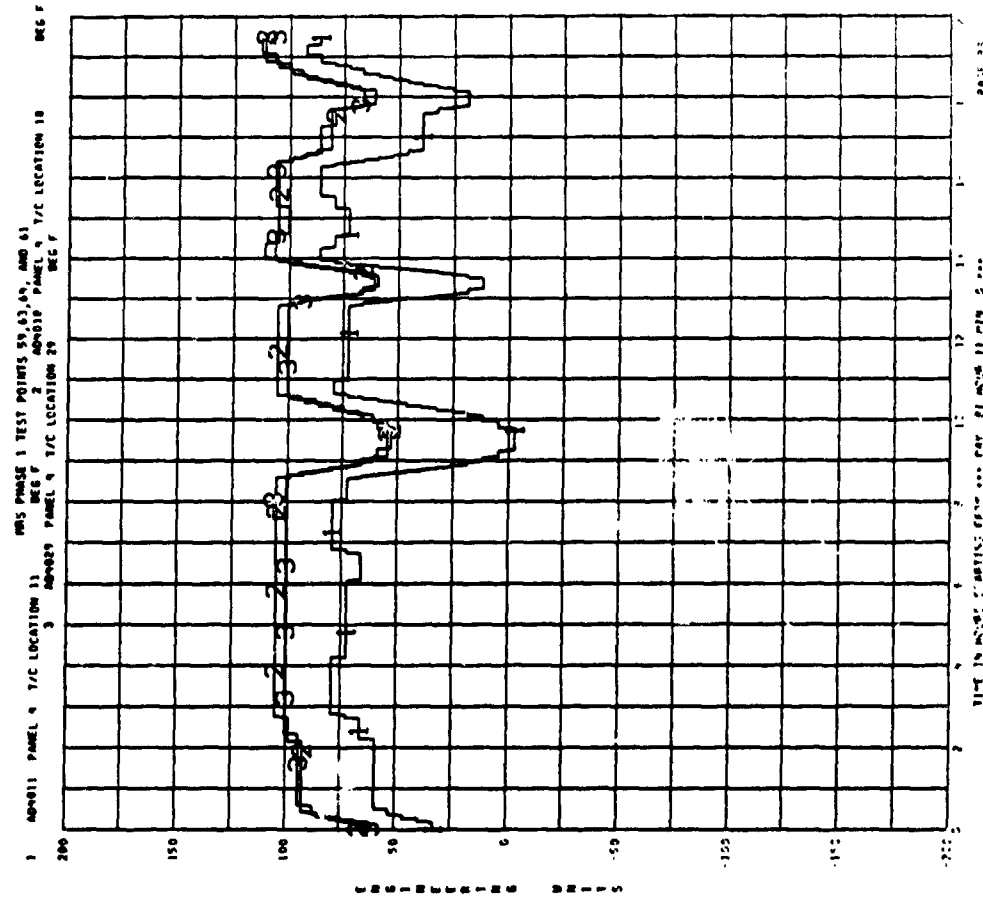
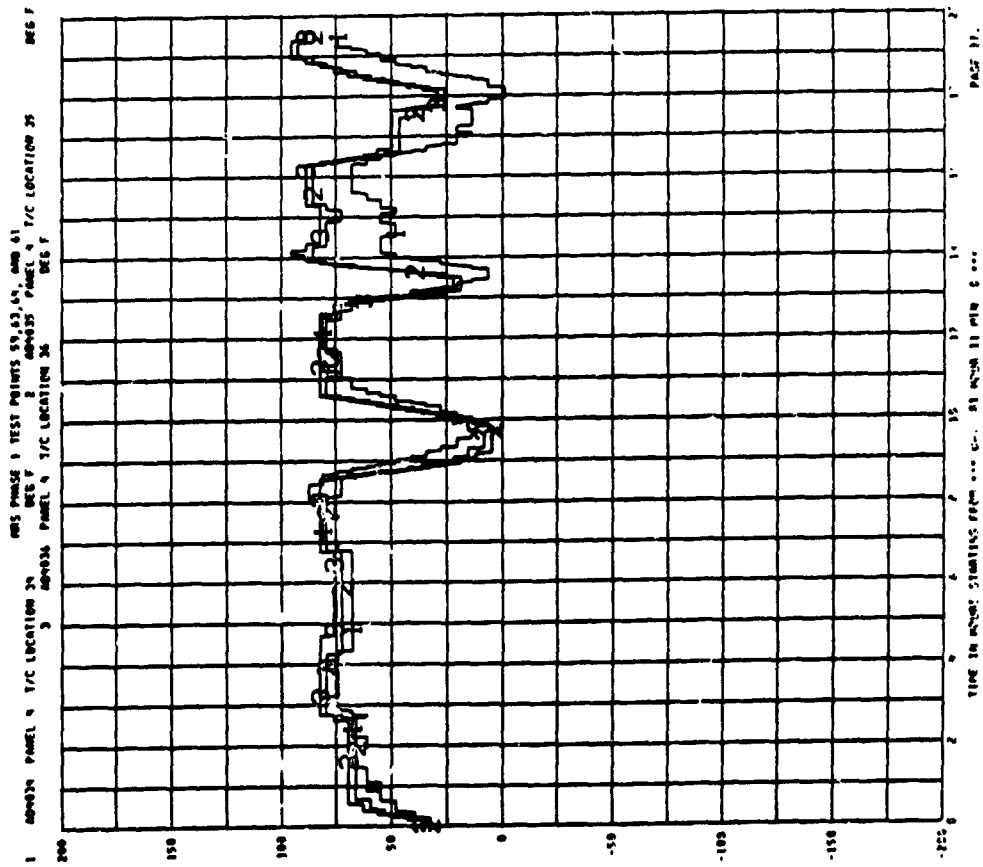


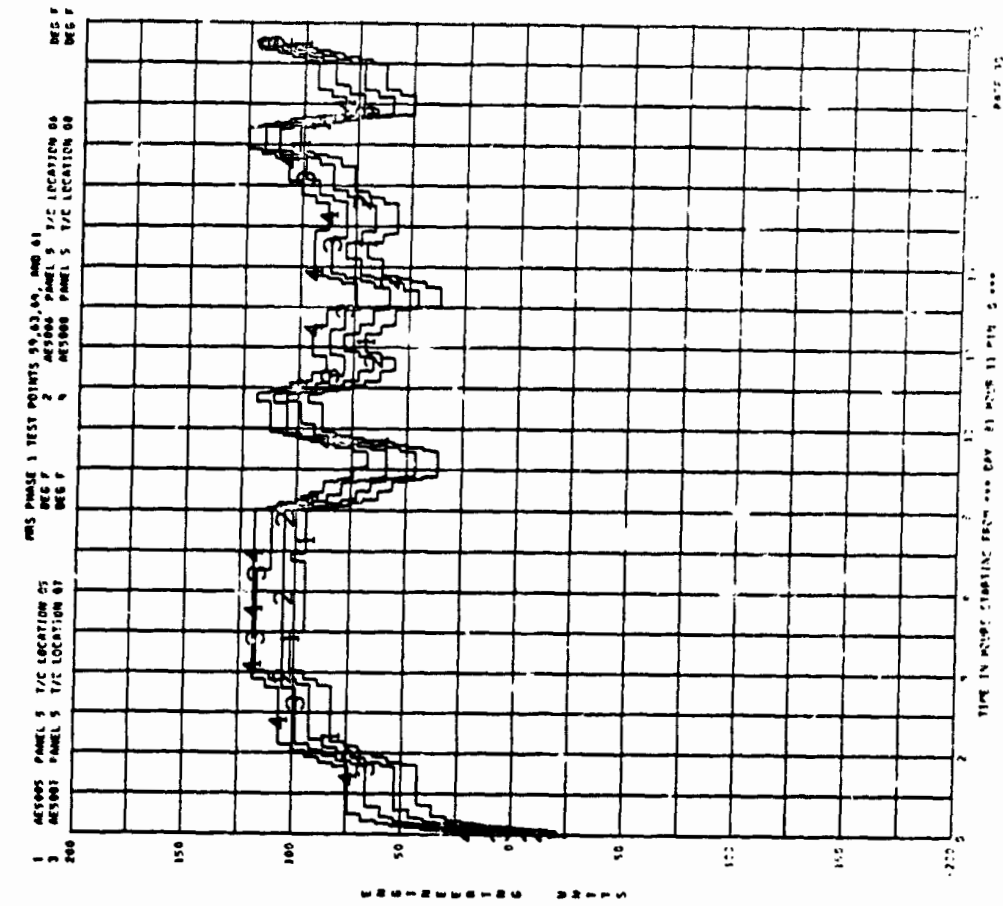
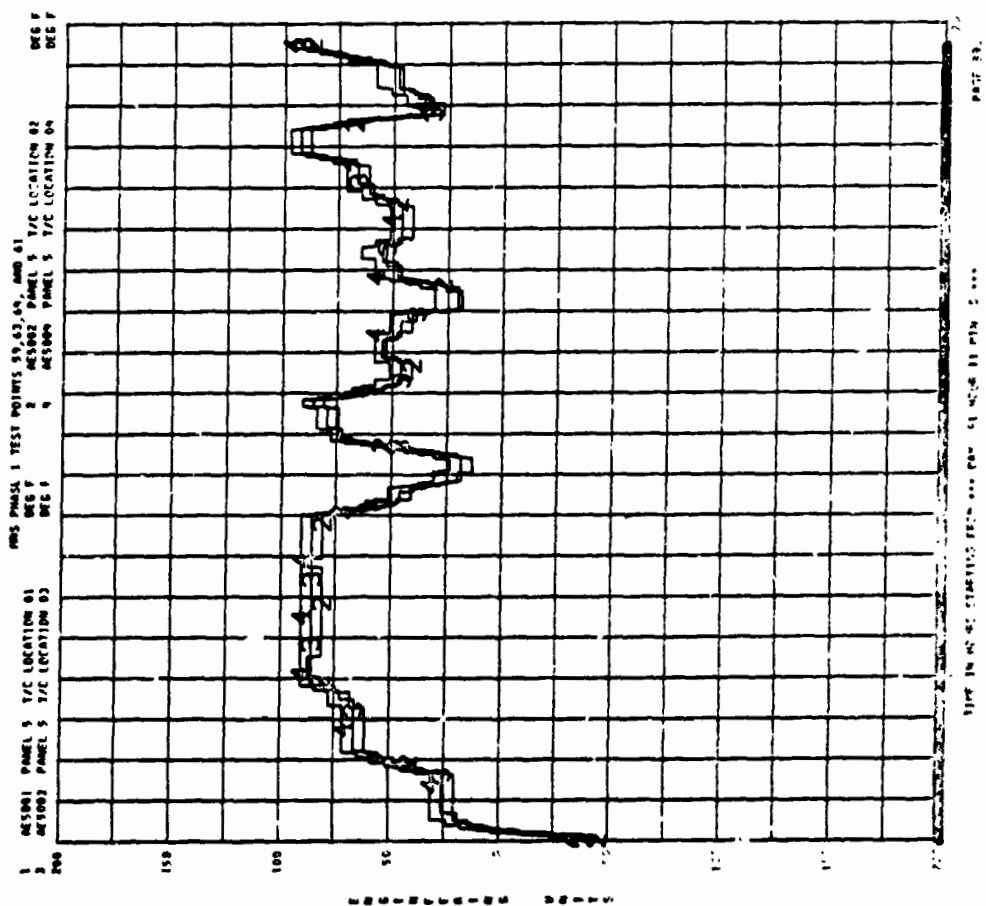


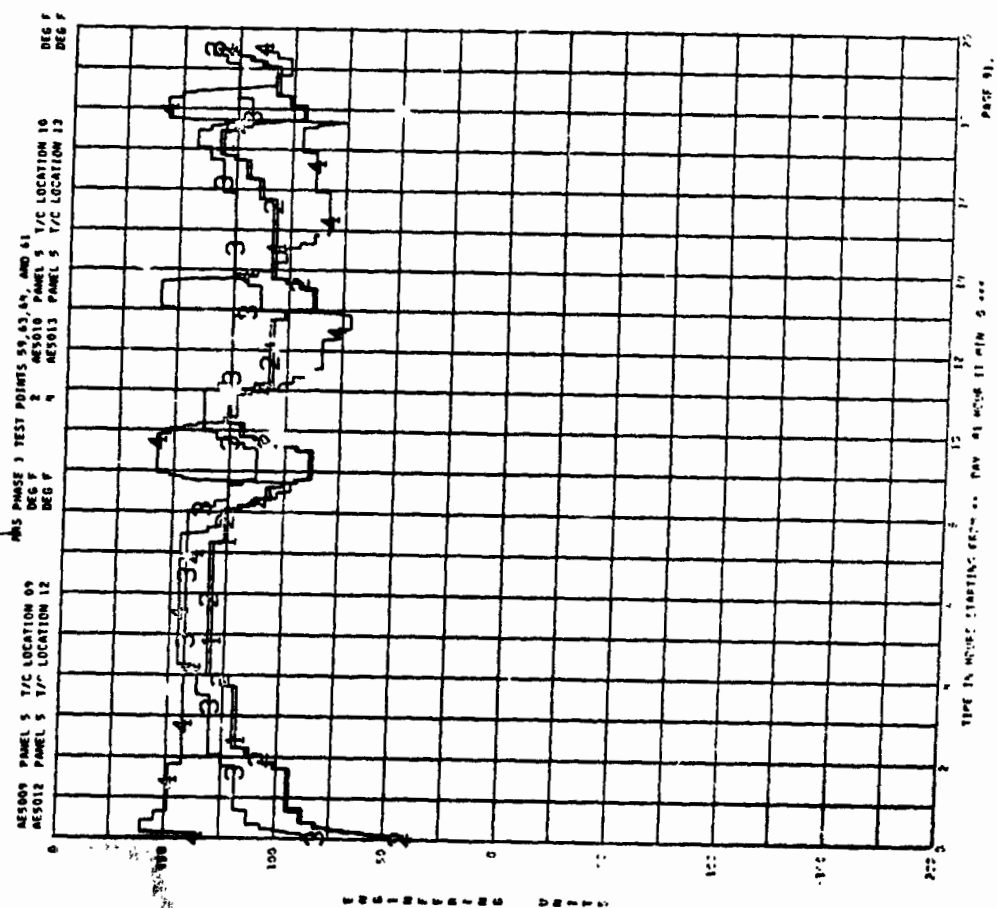
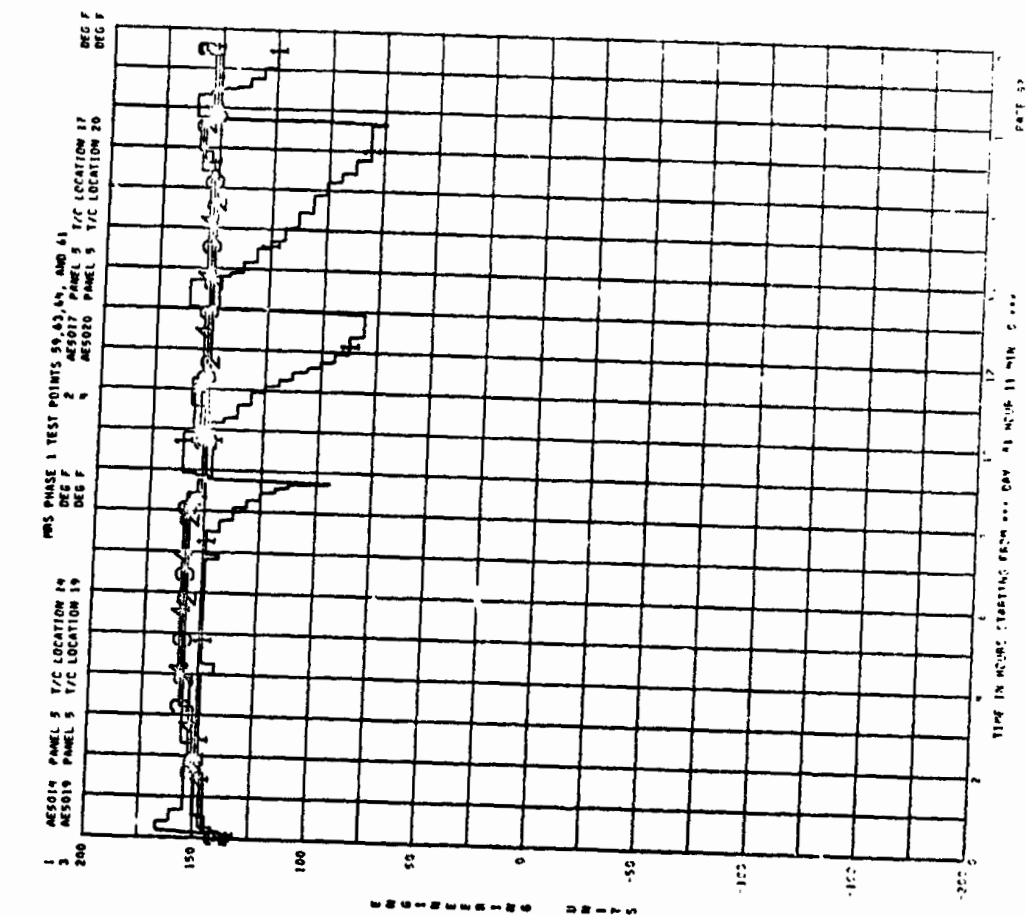




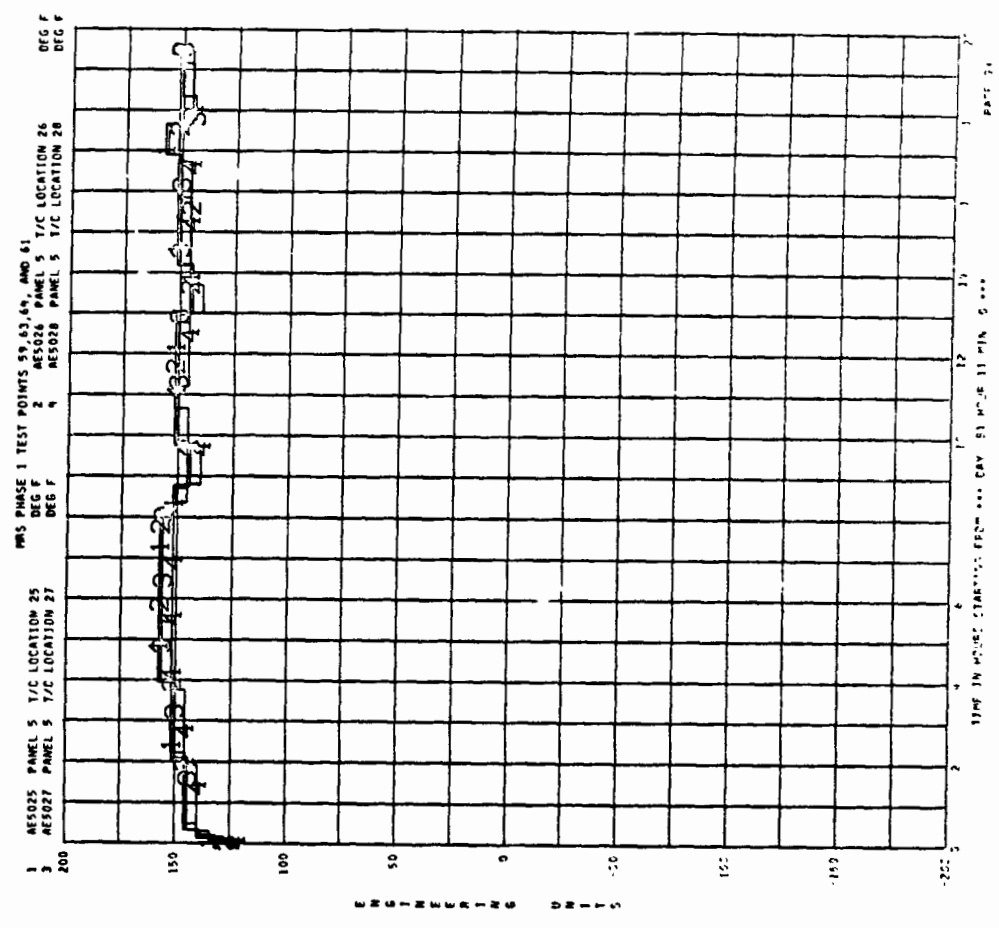
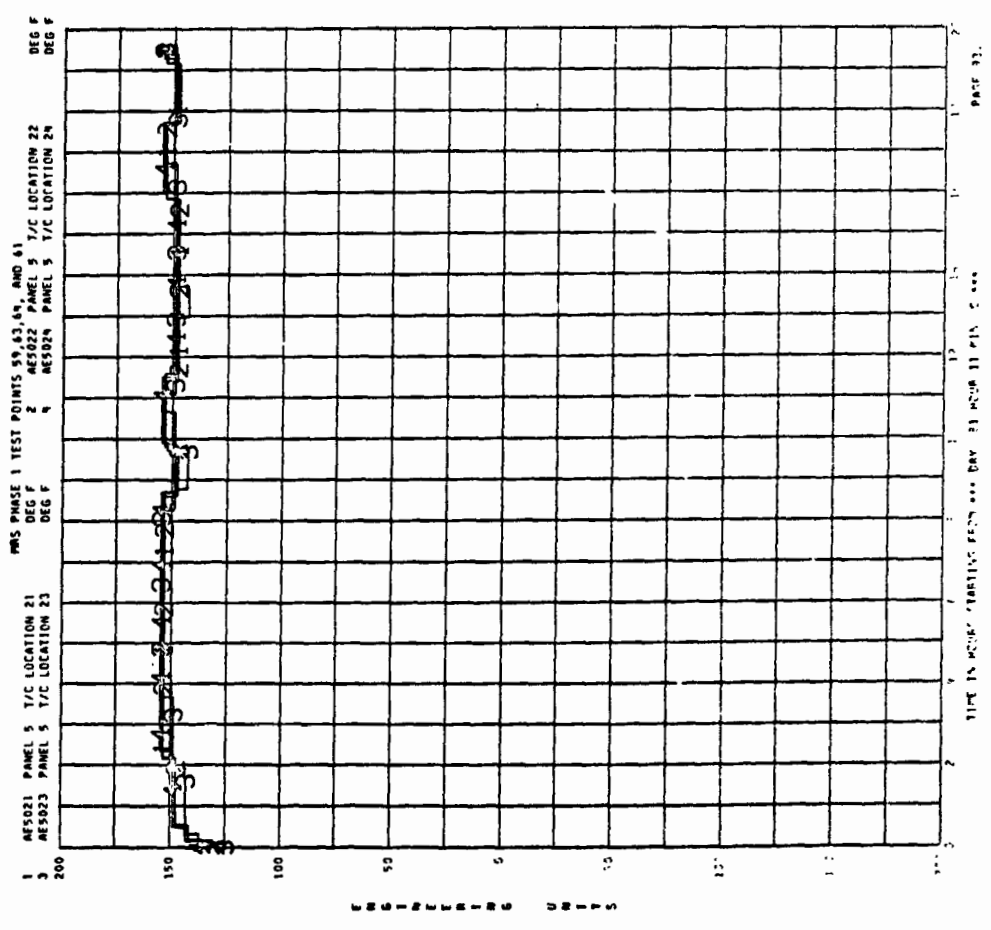


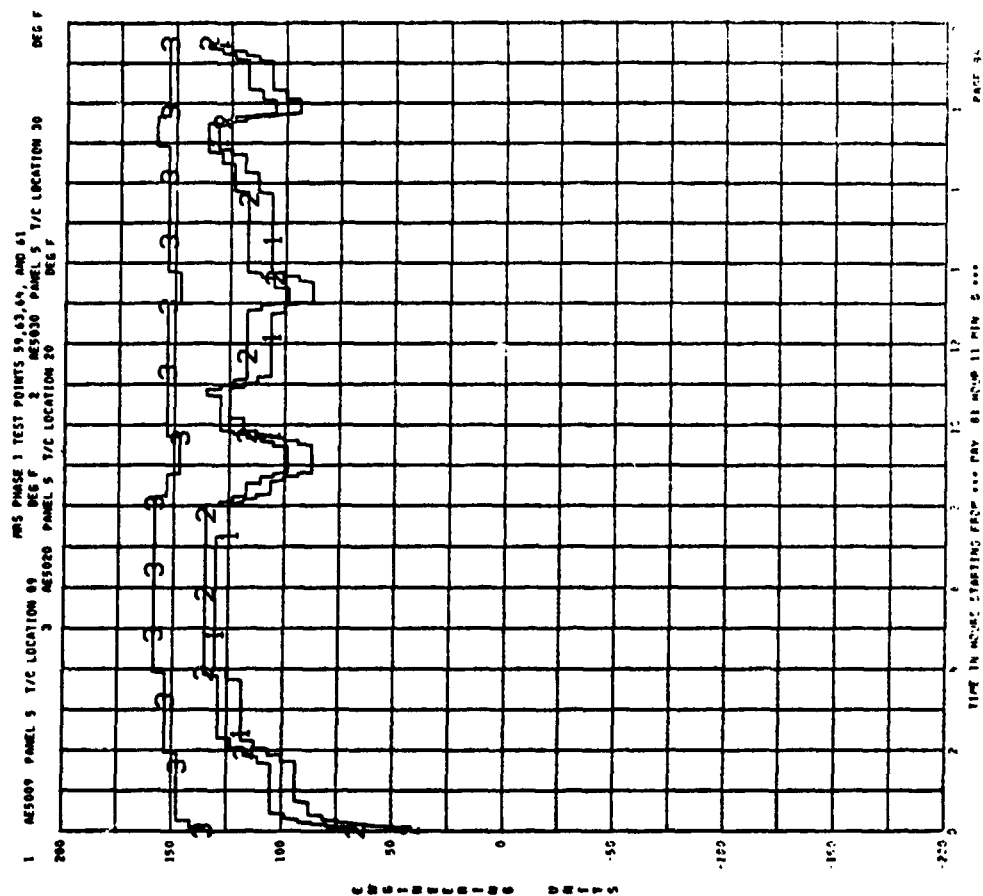
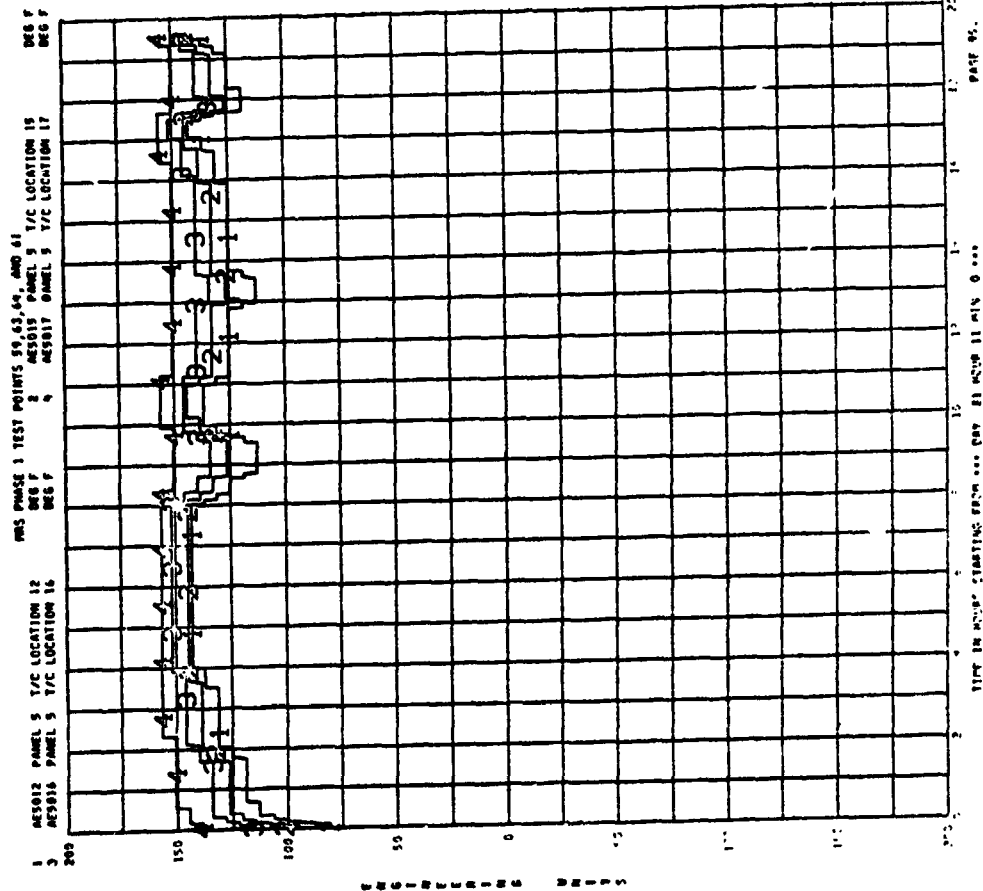


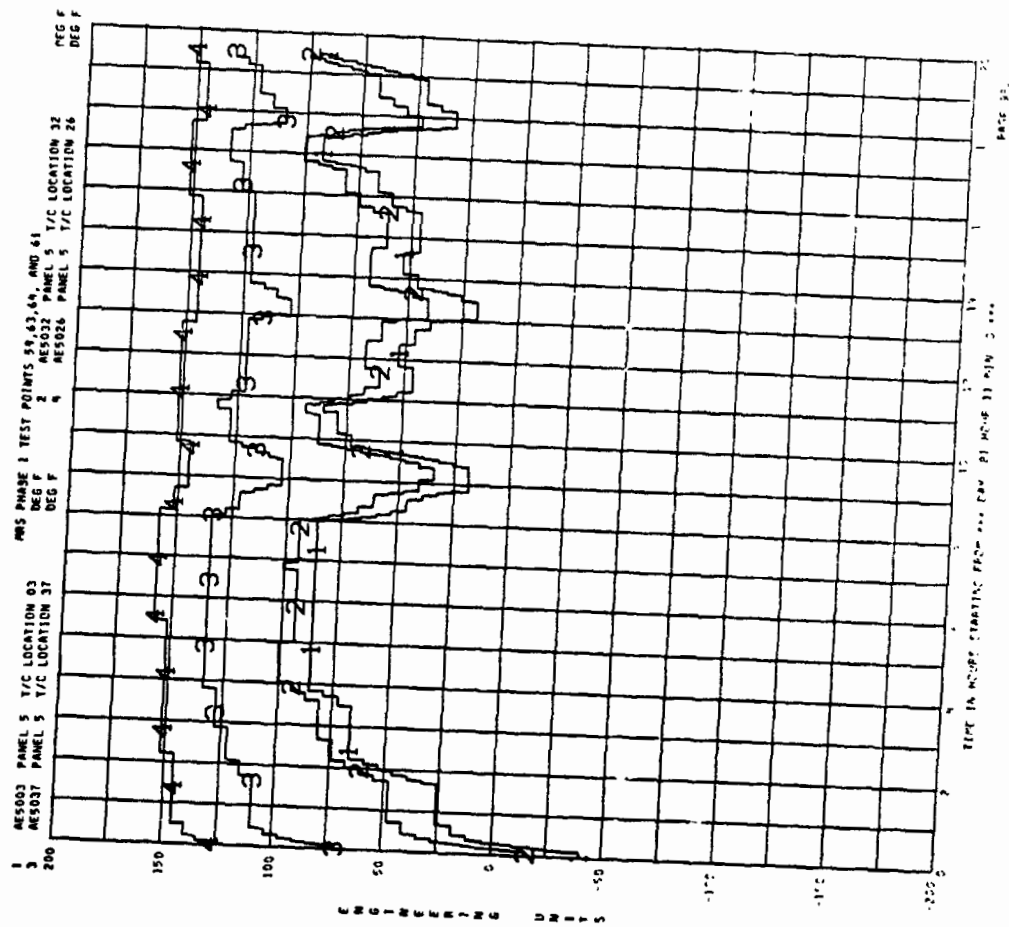
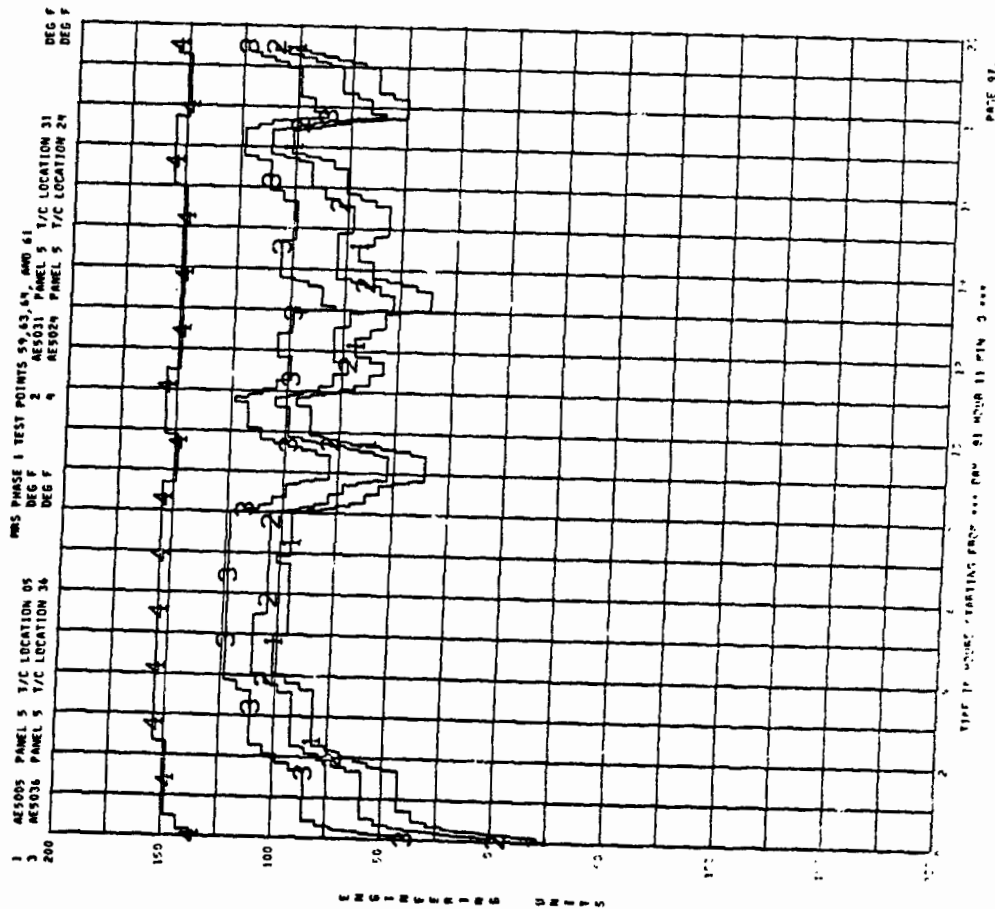


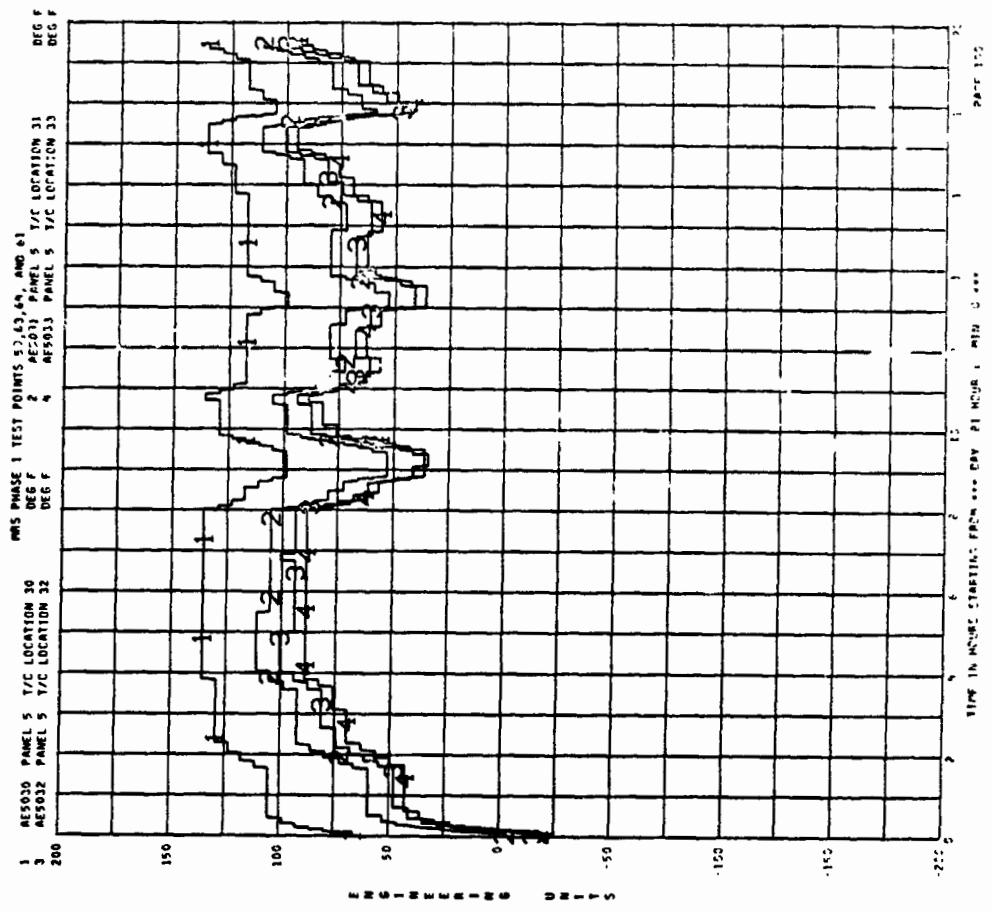
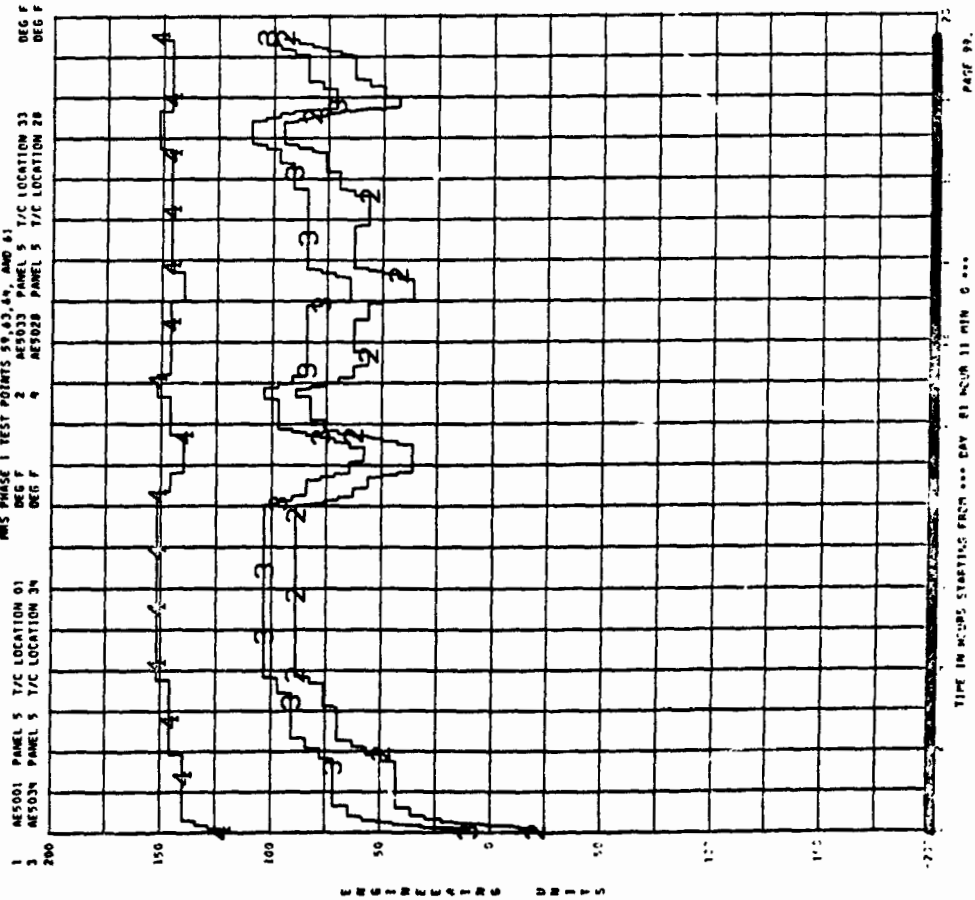


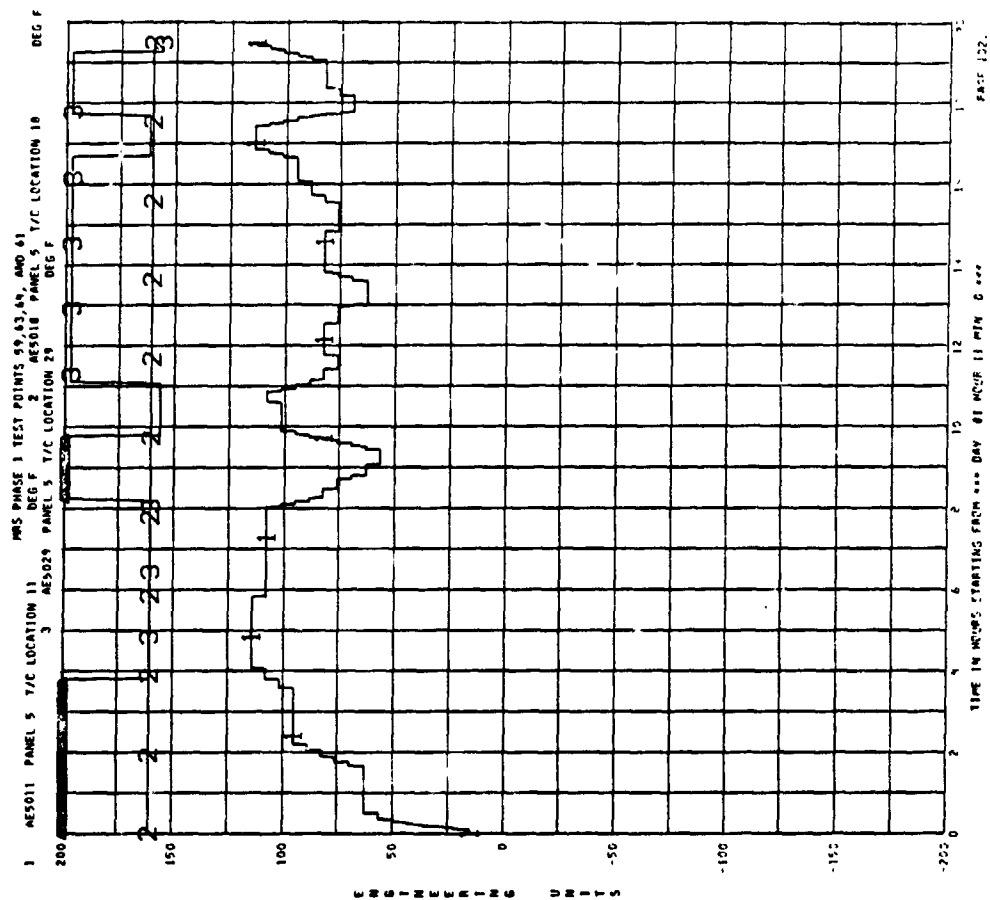
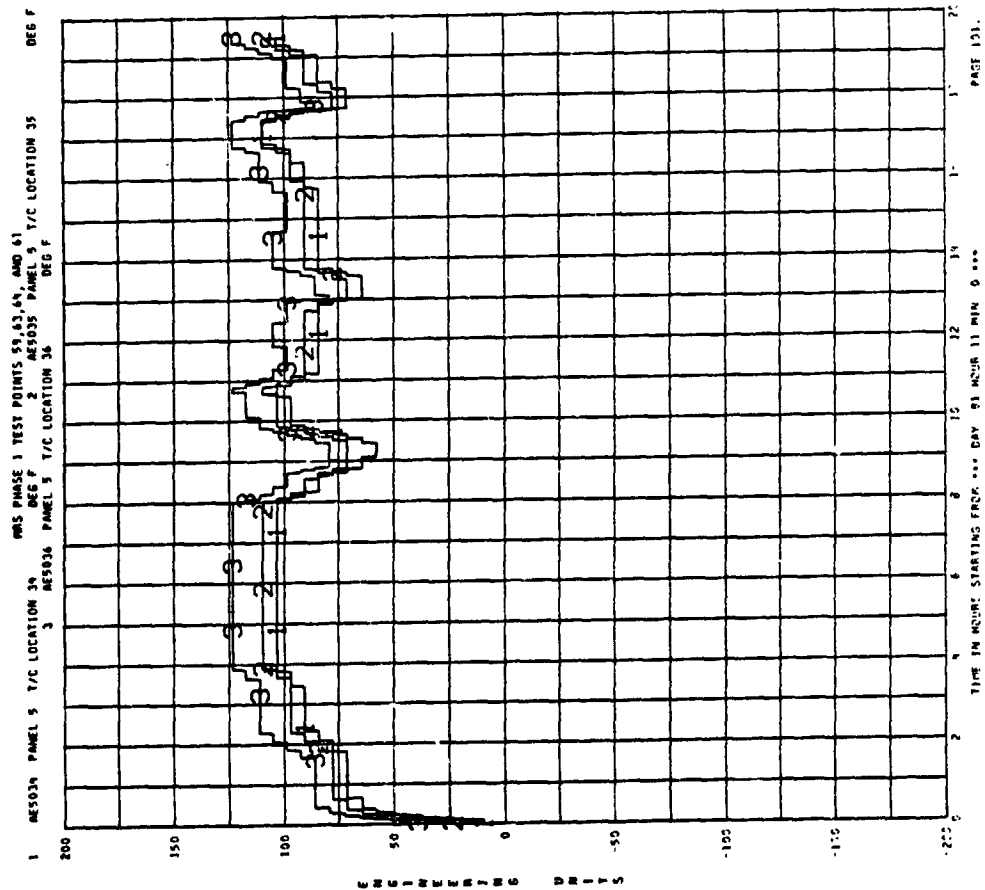




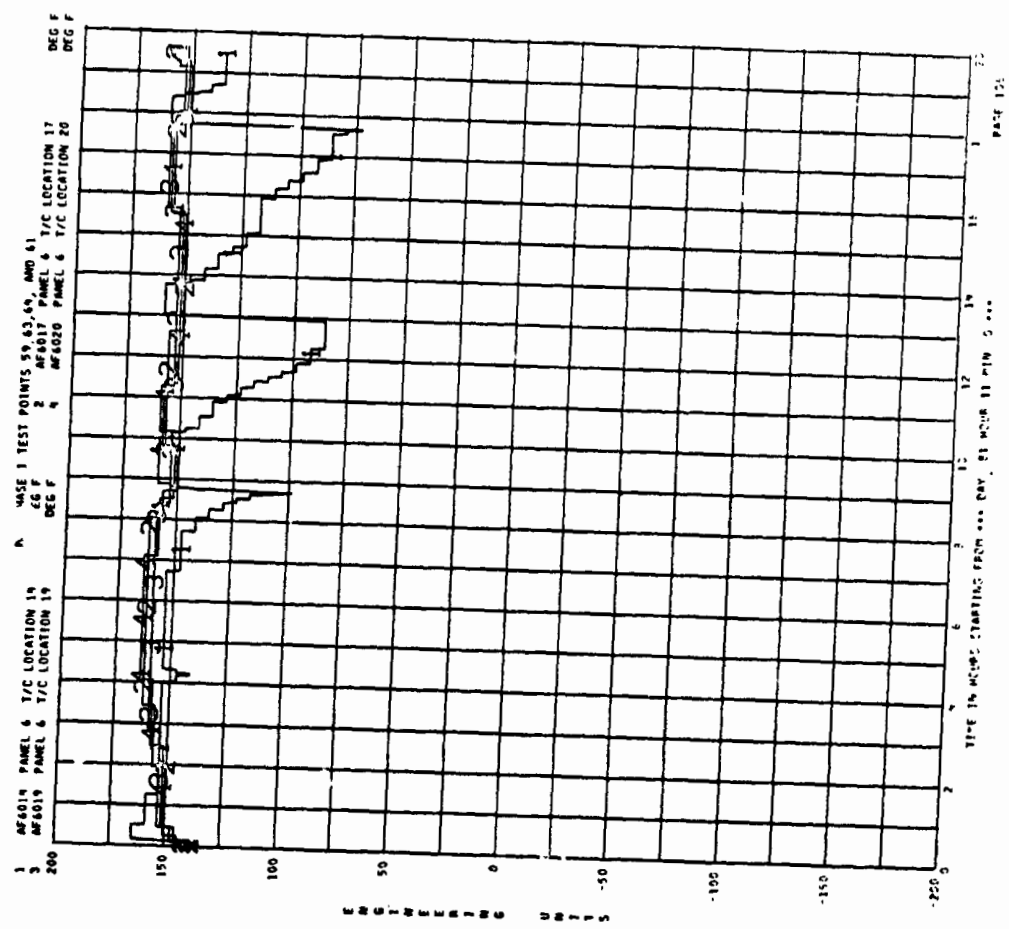
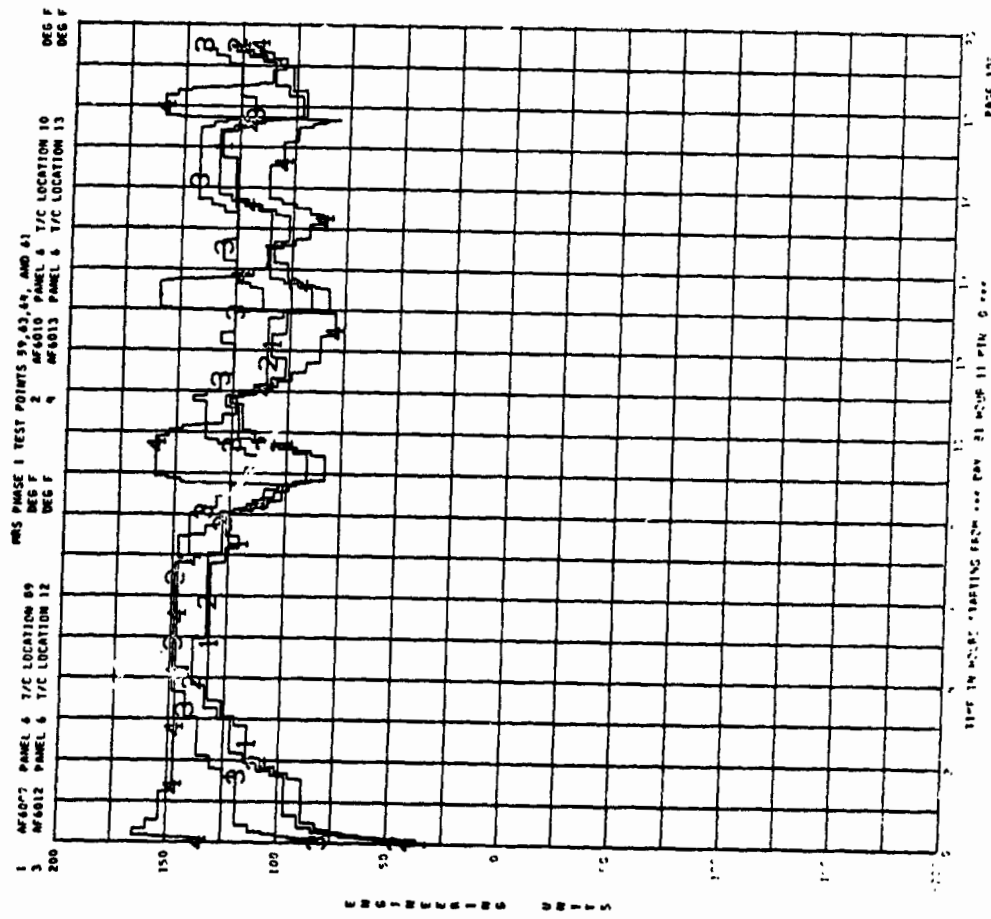


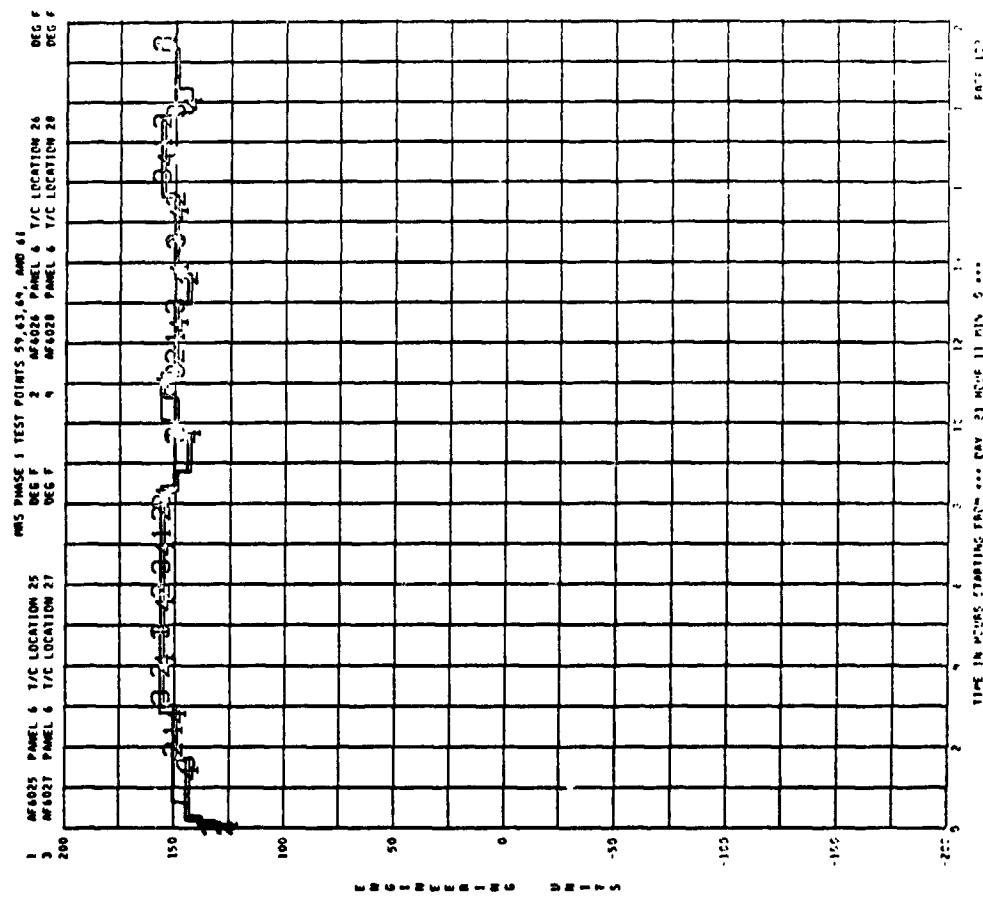
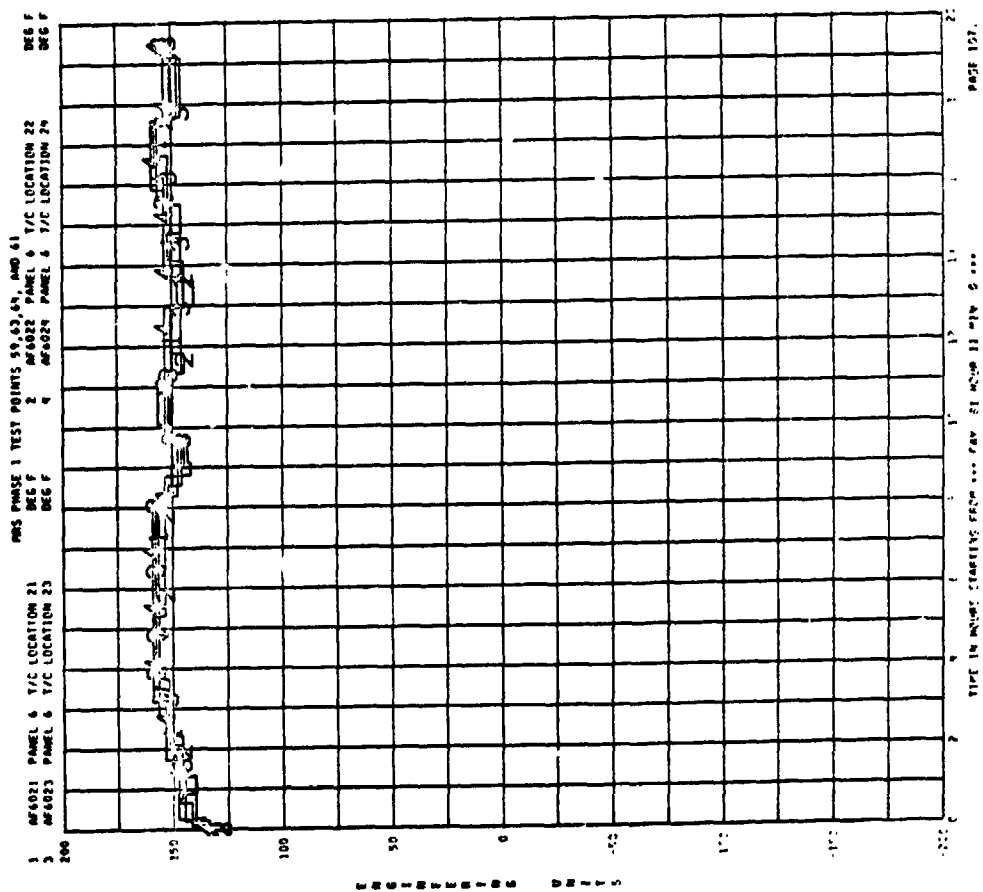




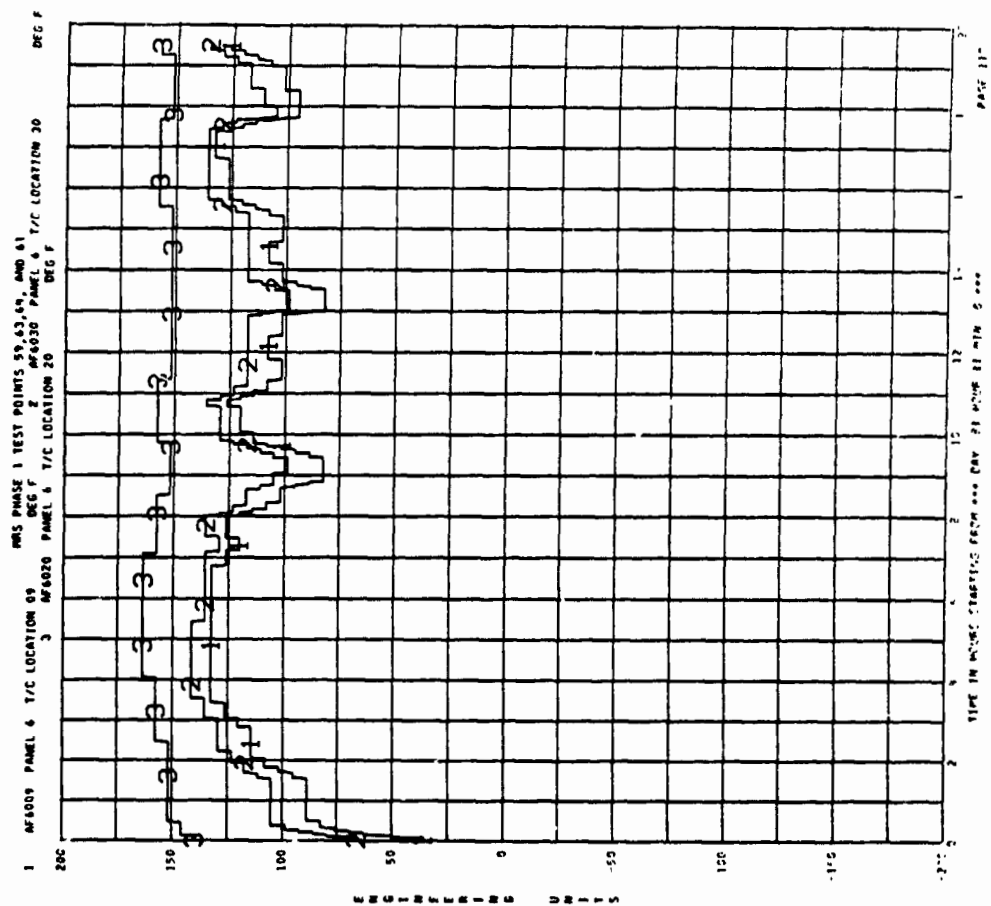
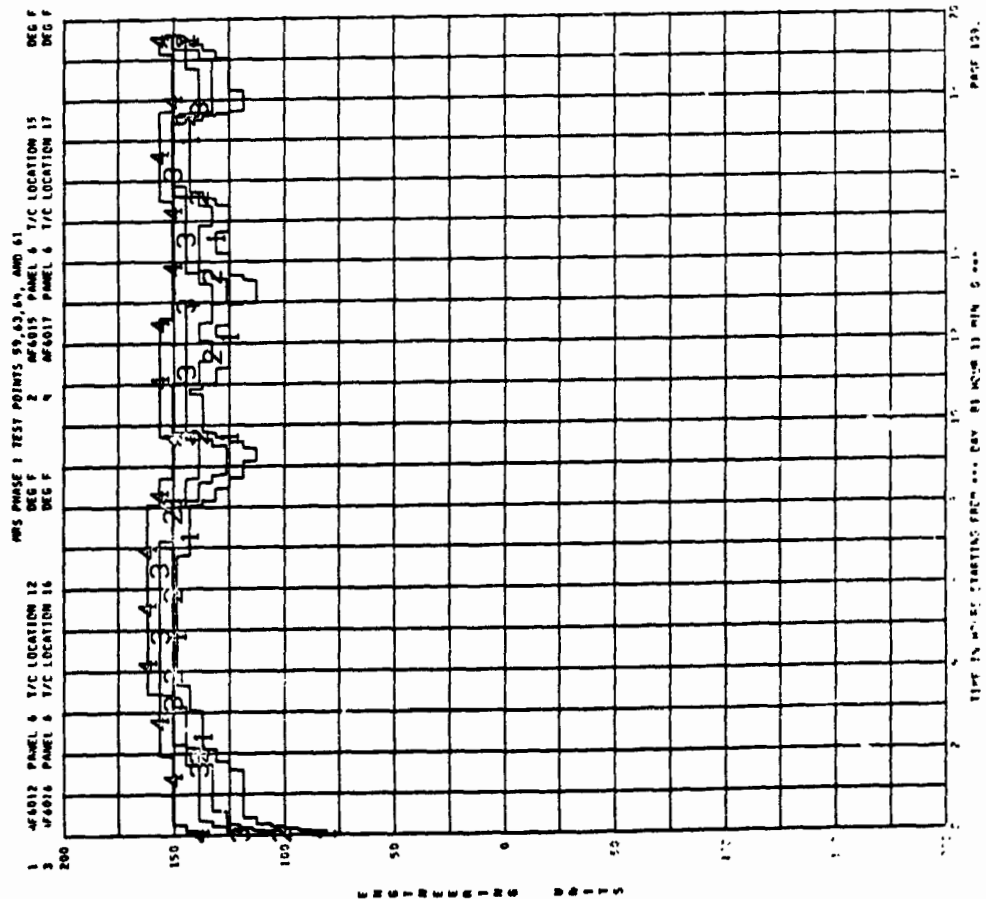


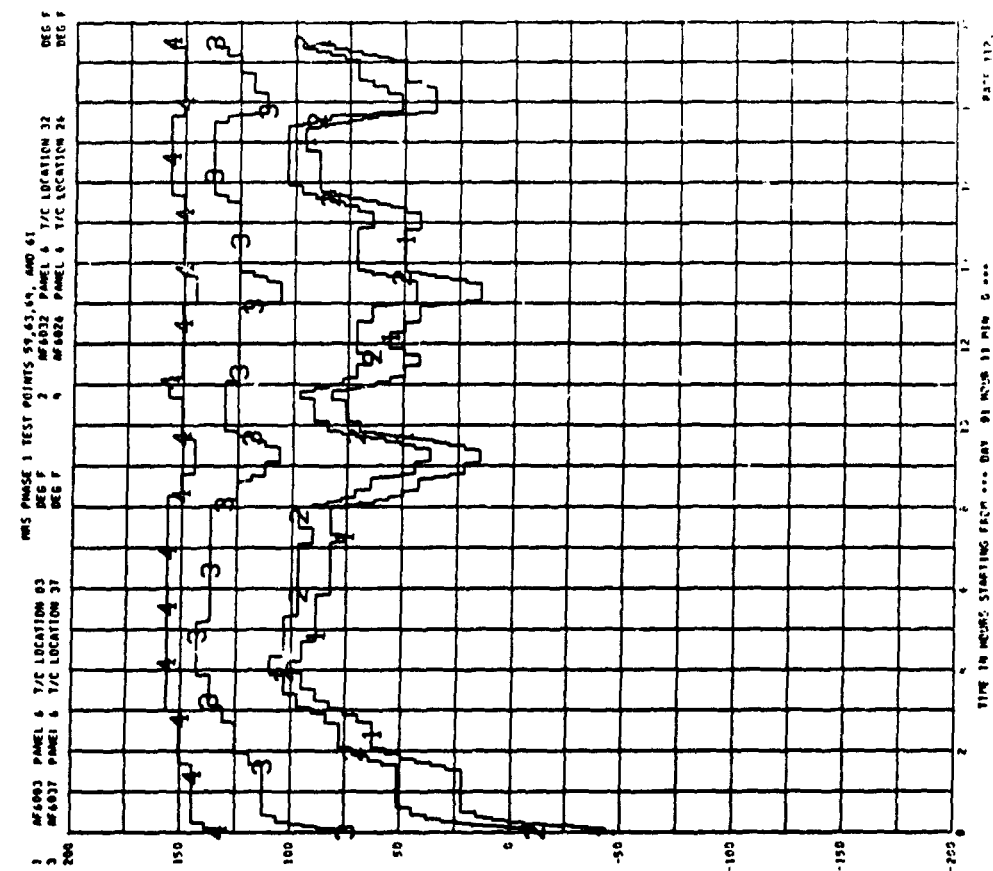
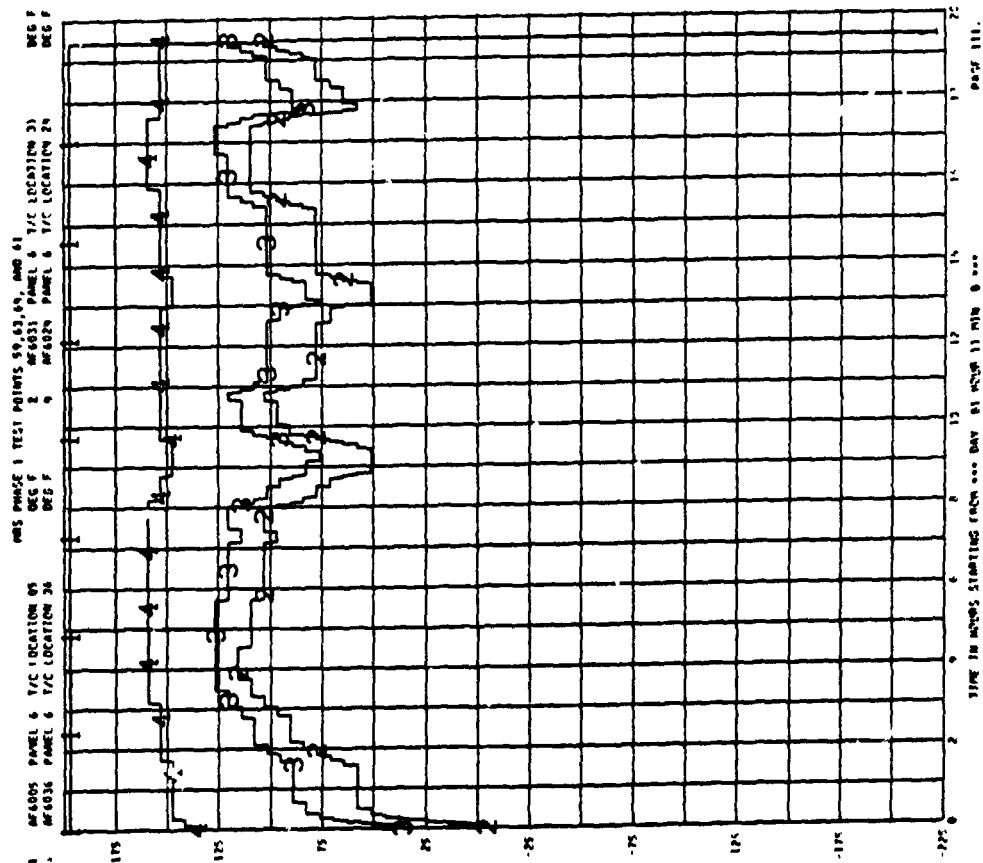






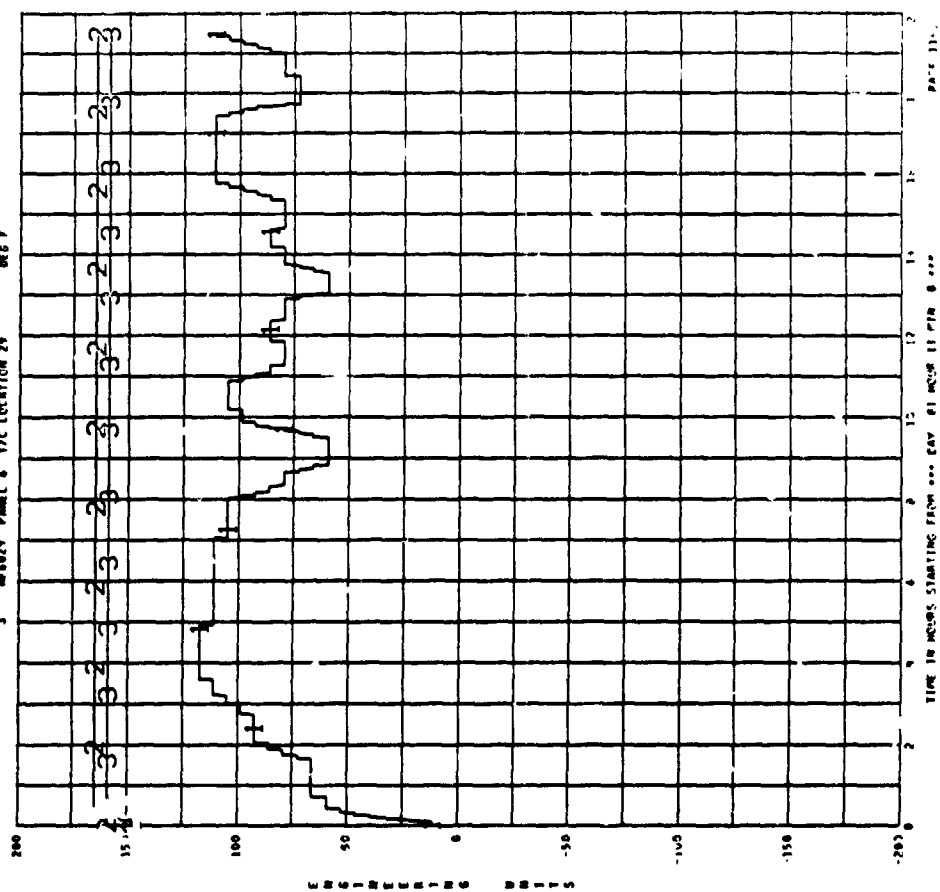




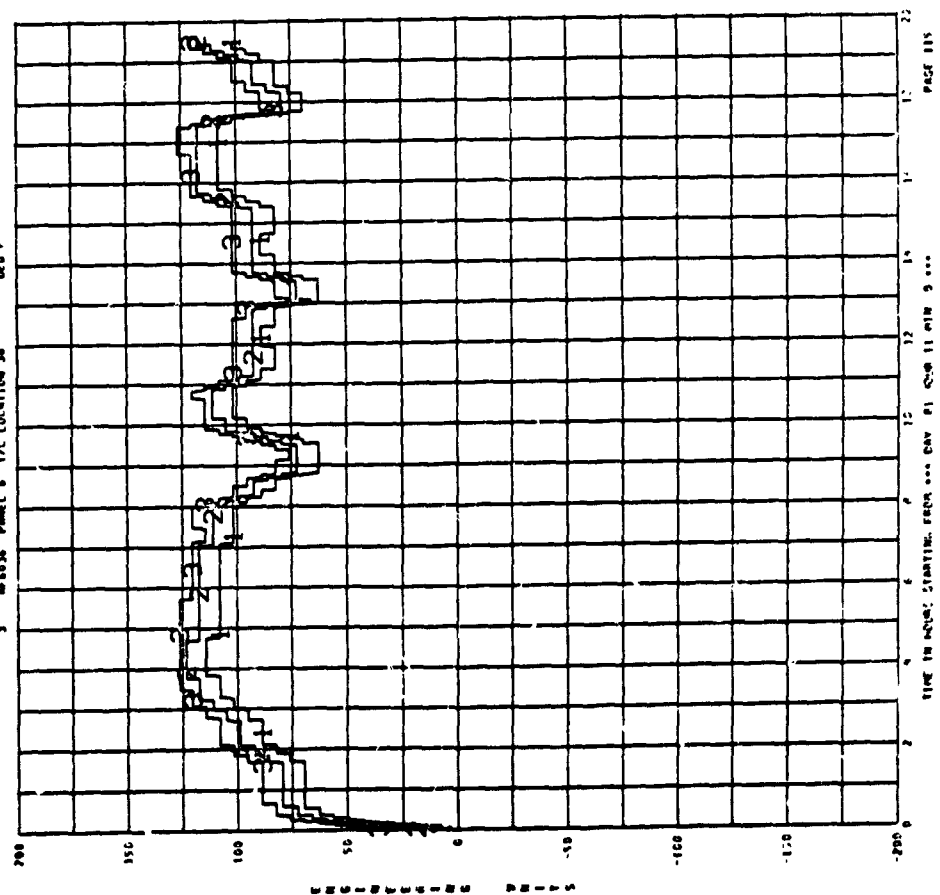


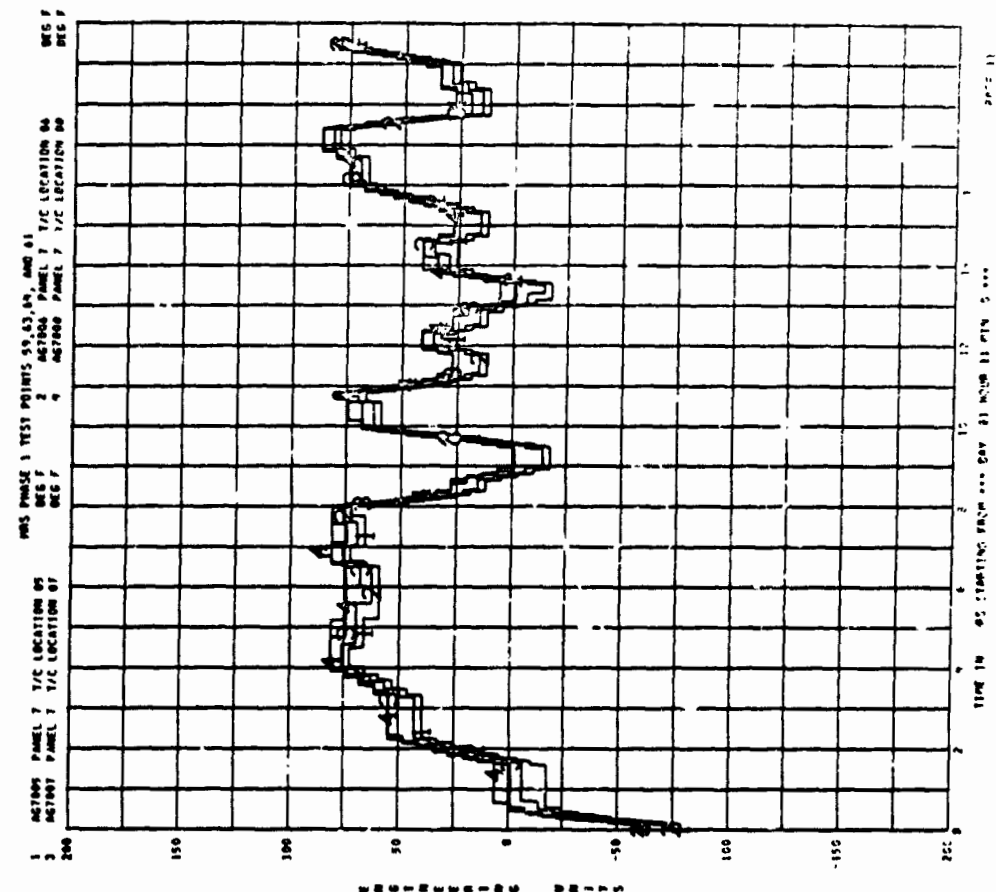
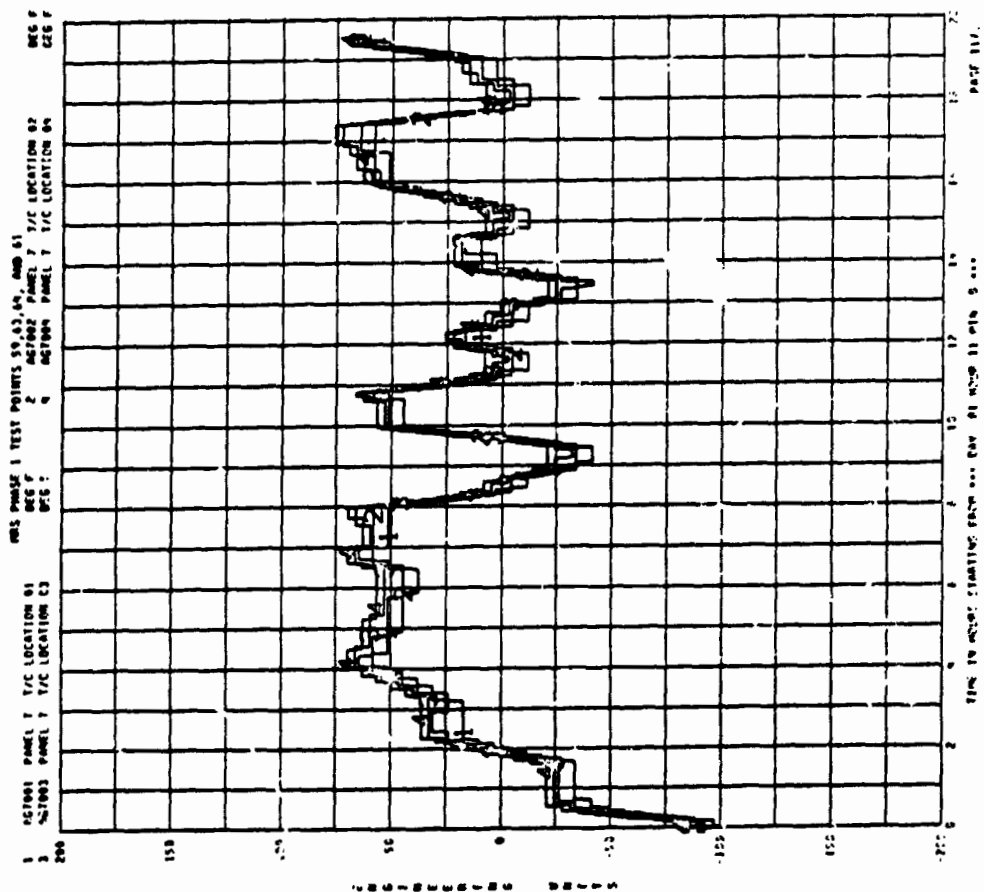


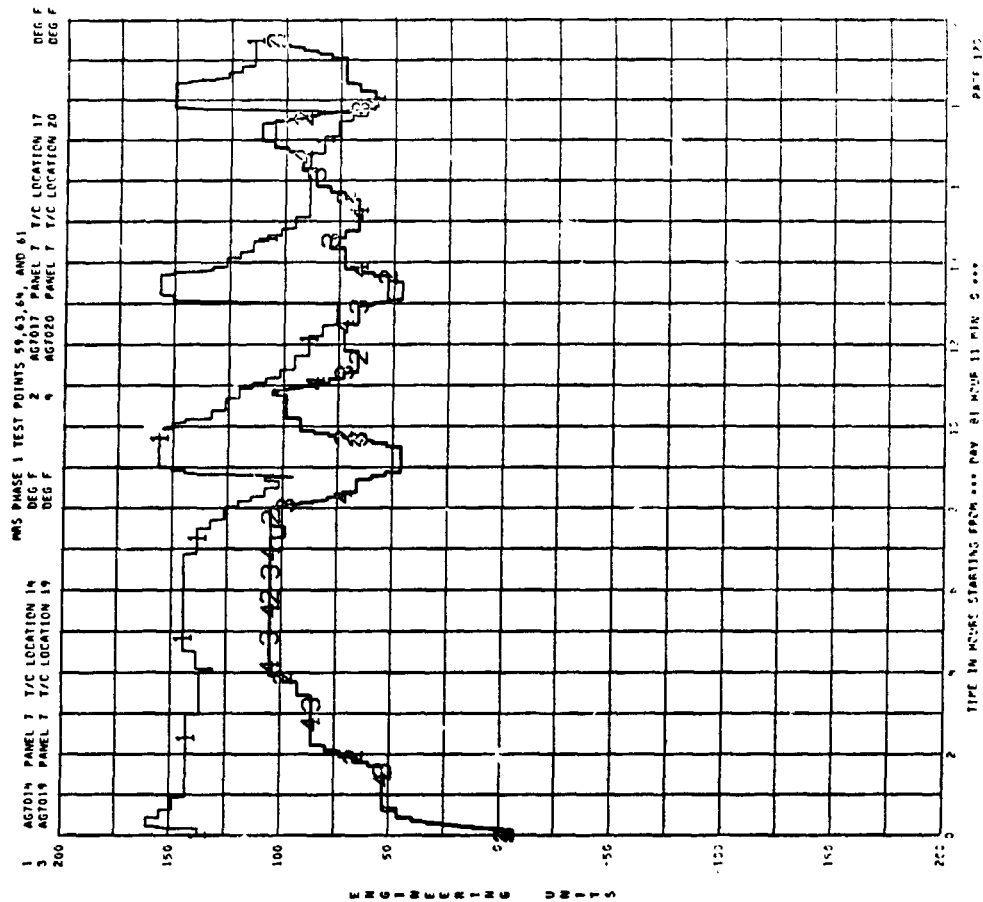
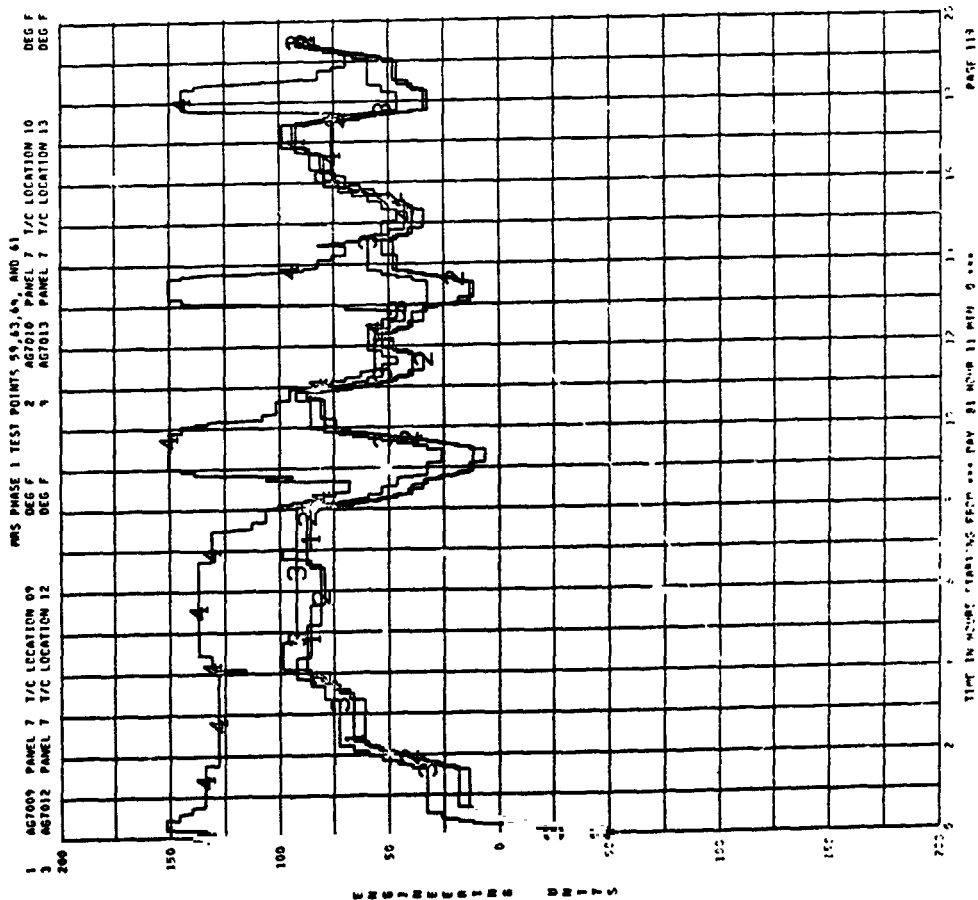
AF6011 PANEL 6 T/C LOCATION 11 DEG F 2 AF6010 PANEL 6 T/C LOCATION 10 DEG F  
3 AF6029 PANEL 6 T/C LOCATION 29 DEG F  
PHS PHASE 1 TEST POINTS 59,63,69, AND 81

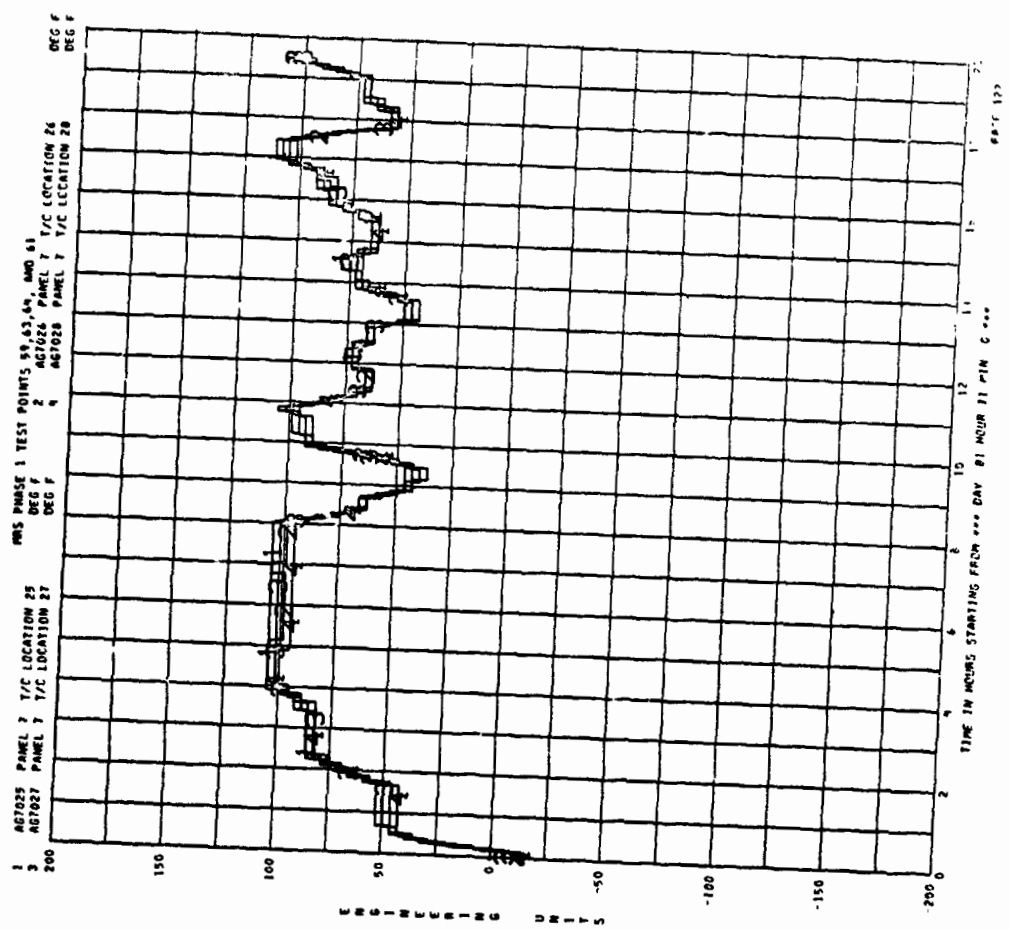
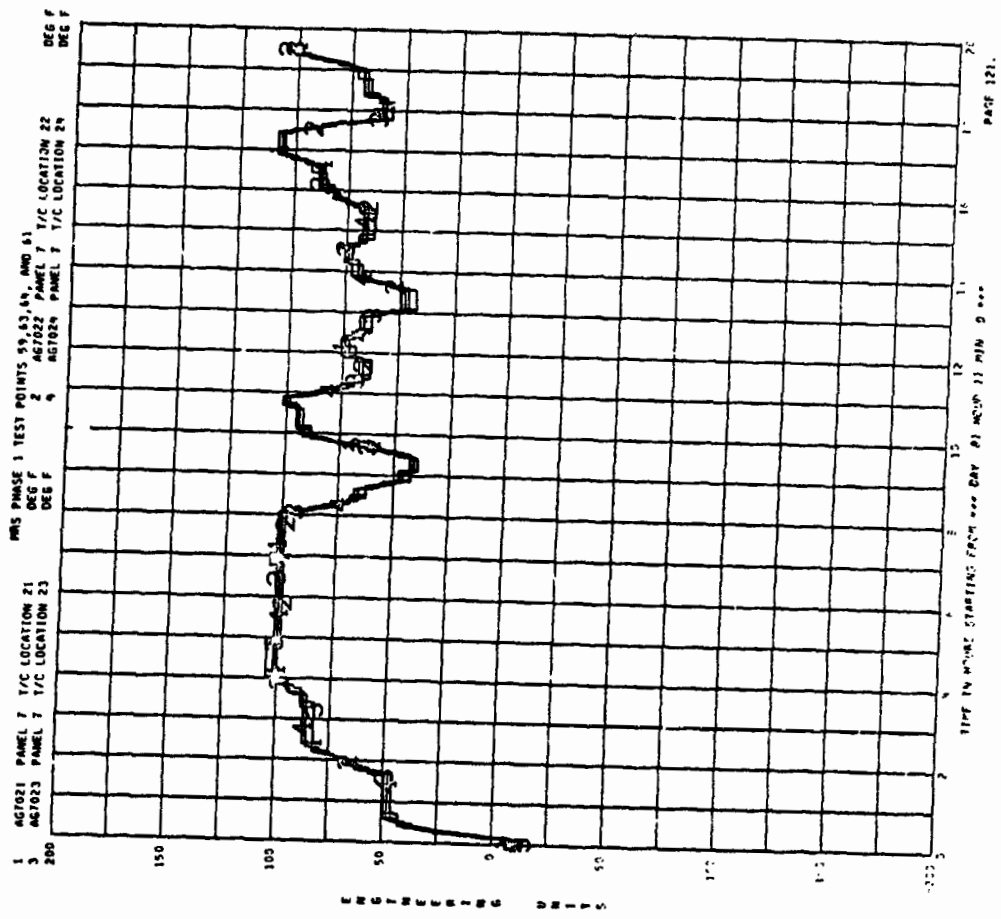


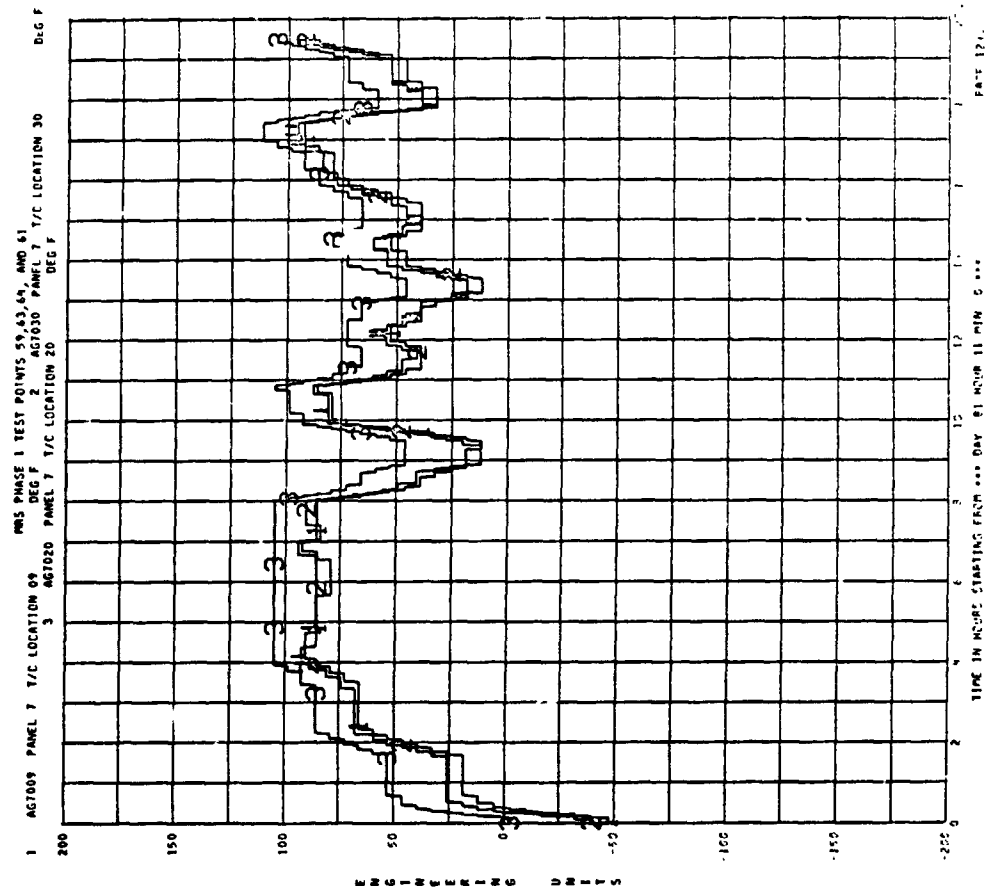
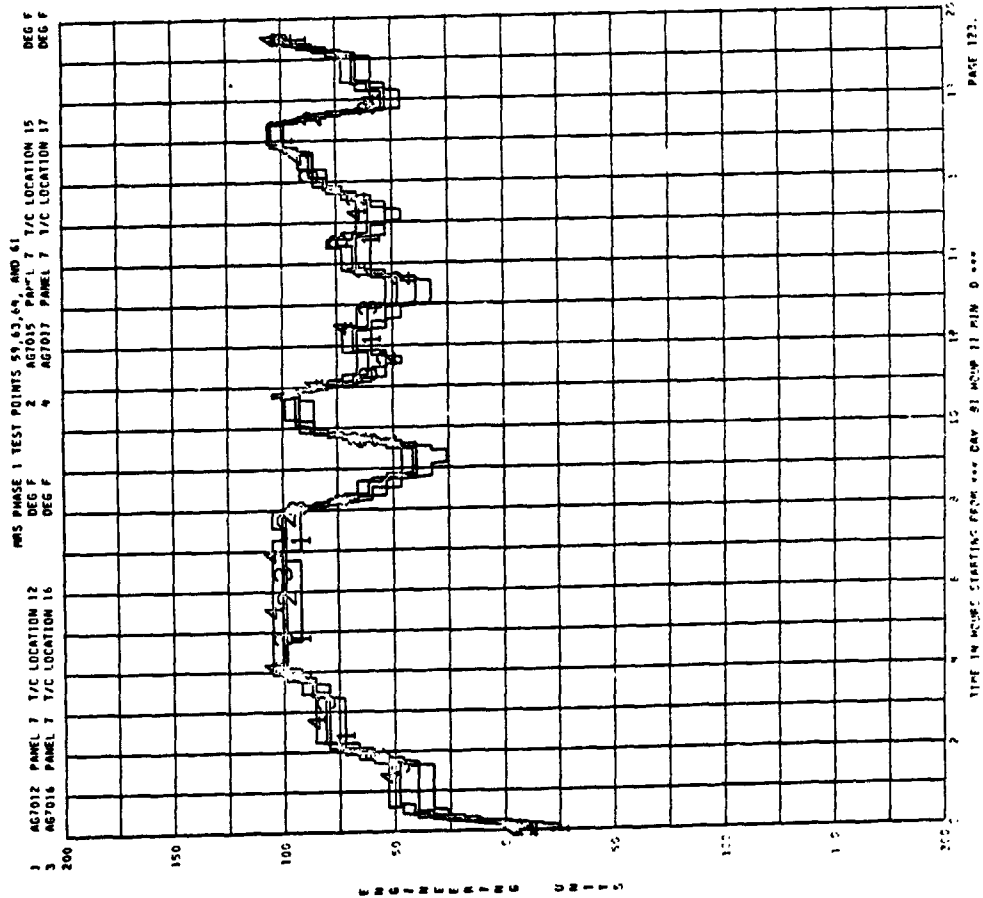
1	AF6034	PANEL 6	T/C LOCATION 3d				
				2	AF6035	PANEL 6	T/C LOCATION 35
							DEC F
				3	AF6036	PANEL 6	T/C LOCATION 36
							DEC F
							END PHASE 1 TEST POINTS 59, 63, 64, AND 61



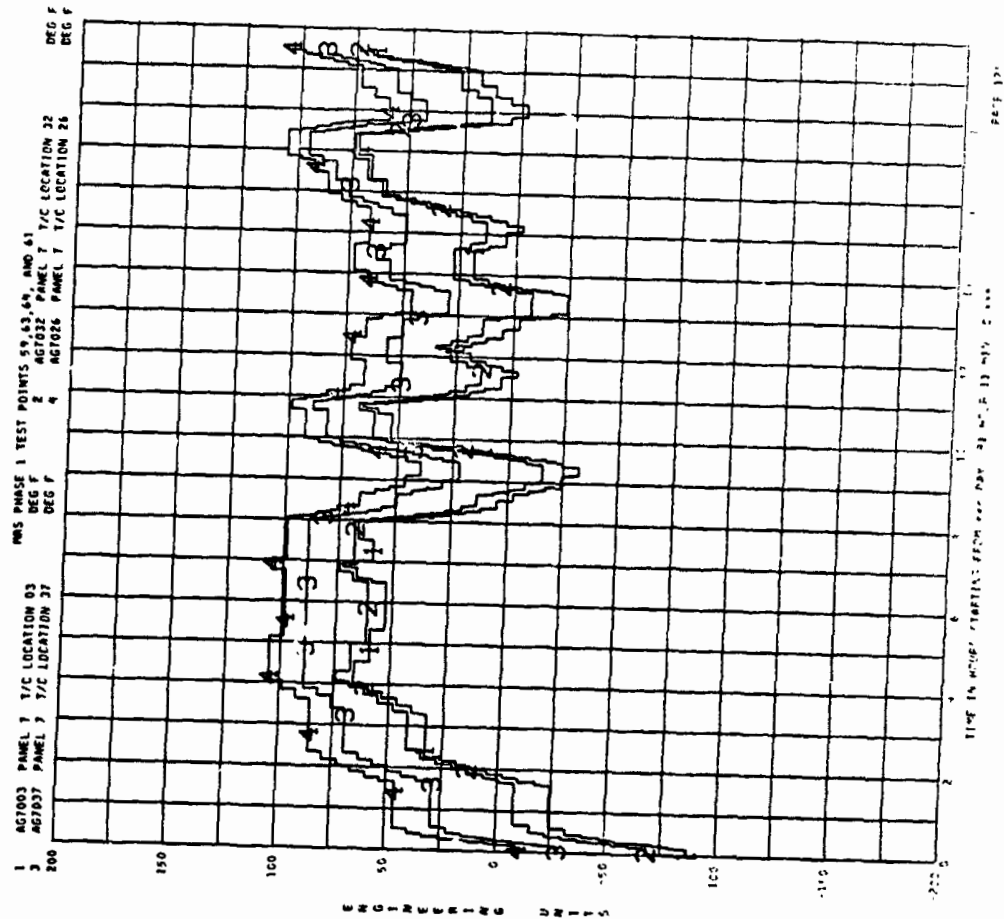
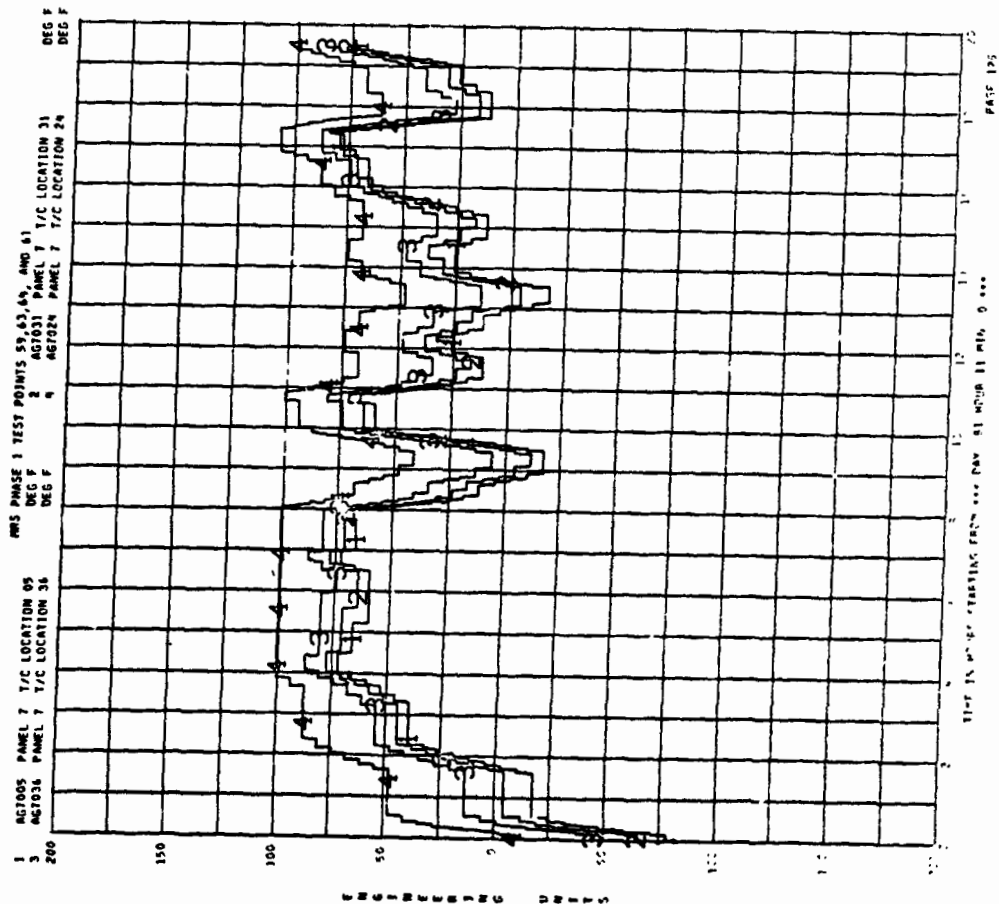


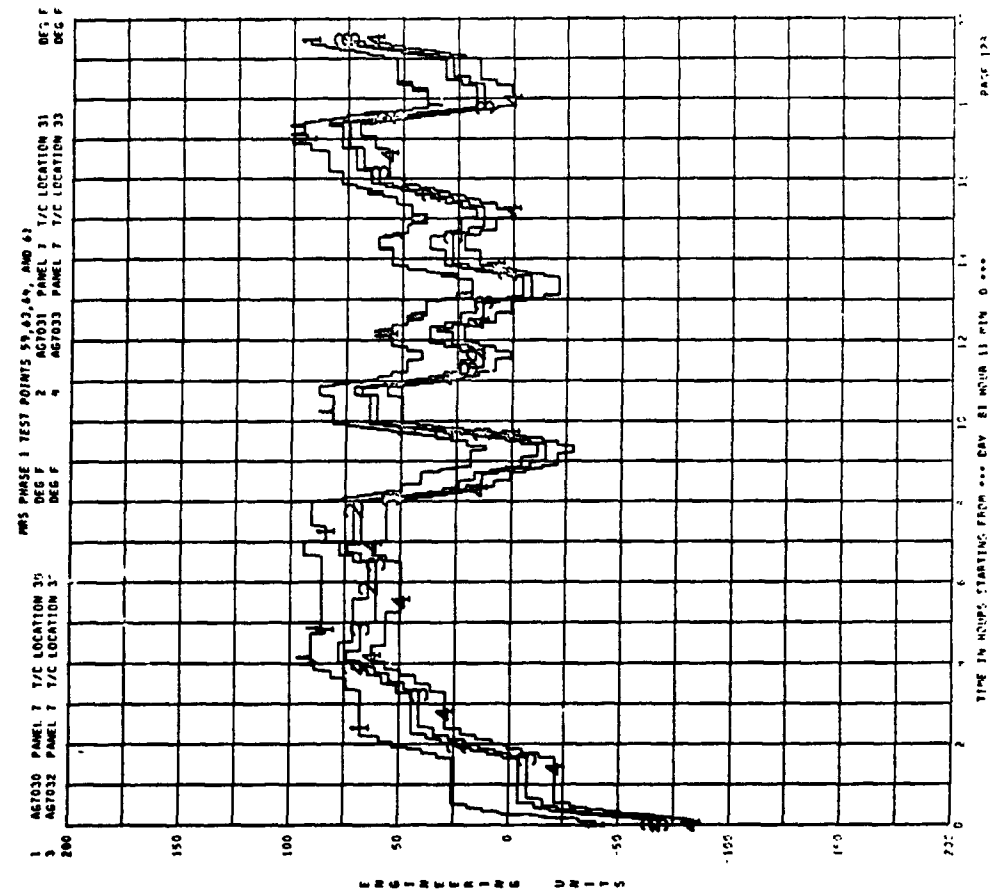
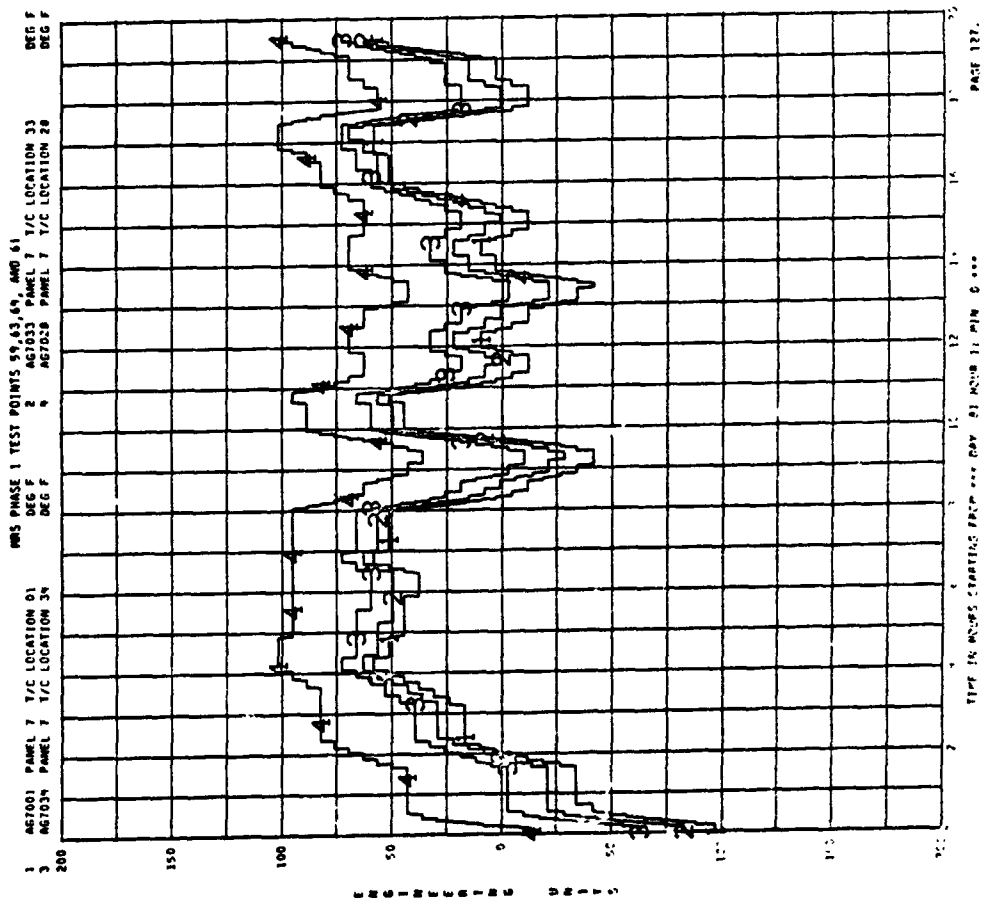












PWS PHASE 1 TEST POINTS 59,63,64, AND 61						
	DER F	2	AGT018			
	PANEL 7	T/C LOCATION 29	DER F			
1	AGT011	PANEL 7 T/C LOCATION 11	3	AGT029	PANEL 7 T/C LOCATION 29	DER F
2	AGT011	PANEL 7 T/C LOCATION 11	2	AGT018	PANEL 7 T/C LOCATION 10	DER F

